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OF

THE ASTRONOMICAL OBSERVATORY OF HARVARD COLLEGE.

EDWARD C. PICKERING, Director.

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VOL. CI.

DURCHMUSTERUNG OF SELECTED AREAS

BETWEEN $\delta = 0$ AND $\delta = +90°$

SYSTEMATIC PLAN

BY

EDWARD C. PICKERING,
Director of the Harvard College Observatory,

AND

J. C. KAPTEYN,
Professor of Astronomy and Director of the Astronomical Laboratory
at Groningen.

GRONINGEN
HOITSEMA BROTHERS.
1918.

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~~Observatory~~
Physics

PREFACE

BY EDWARD C. PICKERING.

It is the policy of this observatory, whenever increased efficiency can thus be attained, to cooperate with other observatories. It was, therefore, a pleasure to aid the plans of Professor KAPTEYN in his work on the Selected Areas. We have accordingly taken the photographs needed to show faint stars, determined the magnitudes of a sequence of standard stars in each area, and provided the means of publication of the results in this, and the following, volumes of the Annals. Professor KAPTEYN has undertaken the laborious work of measuring the plates, reducing the measures, and determining the positions and magnitudes of large numbers of stars. Also, in preparing the material for the press, and supervising its publication. In all of this work he has been aided by Dr. DE SITTER, Dr. WEERSMA, Dr. ZERNIKE and Dr. VAN RHIJN, as is explained more at length in the last section of KAPTEYN's introduction. The photographs taken at Cambridge were made under the supervision of Professor EDWARD S. KING, those taken at Arequipa, under the supervision of Mr. LEON CAMPBELL and Mr. FRANK E. HINKLEY.

The magnitudes of the standard stars were determined by Miss HENRIETTA S. LEAVITT, aided by Misses A. D. WALKER, E. F. LELAND, M. E. O'REILLY, and others.

April 14, 1917.

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Catalogue 1

INTRODUCTION

BY EDWARD C. PICKERING.

The portion of the present investigation undertaken by the Harvard Observatory may be divided into two parts. First, taking photographs of each of the Selected Areas which should show as faint stars as could be obtained with a moderate exposure. Secondly, determining the magnitudes of a sequence of stars in each of these regions on a uniform scale, which should also coincide with that adopted by the International Committee of the Map of the Sky.

Instruments.

Since the regions occur in various declinations from the North to the South Pole, it was necessary to occupy two stations. The two principal stations of the Harvard College Observatory are in Cambridge and Arequipa. The first of these is in latitude + 42° 23′ and the second, in latitude — 16° 22′. Stars in all parts of the sky can accordingly be photographed at one or both of these two stations. It seemed best to use photographic doublets, to insure uniformity in the scale of magnitude throughout the field. Fortunately, two large telescopes, having photographic doublets as objectives, were available. At Cambridge, the instrument used was the 16-inch Metcalf Telescope, in which the lens is a Petzval portrait lens. The aperture is 16 inches (40 cm.). As originally constructed, the scale of the photographs was 93″.3 = 1 mm., and the corresponding focal length, 87 inches (221 cm). The entire work of constructing this lens was done by the Rev. Joel H. Metcalf. The minimum wave length was about 4650. It seemed probable that the images of the stars, in general, could be improved by decreasing this minimum wave length, and, accordingly, in July, 1913, Mr. Metcalf reground two of the surfaces, and the minimum wave length is now 4200. The scale became 98″.2 = 1 mm., and the focal length 82 inches (210 cm.).

By the use of curved plates as described in H. C. 161, the field is greatly increased, so that, in the regions measured, the correction for distance from the centre of the plate is probably insensible. The form of mounting adopted here, as a standard for 24-inch telescopes, is employed for the 16-inch. The driving clock consists of an electric motor controlled by a master clock whose rate can be changed by altering weights on the pendulum To secure circular images, the axis must be adjusted with great care, and corrections applied for flexure and atmospheric refraction.

Photographs can then be obtained with exposures of ten or even twenty minutes without following, even on the Equator. In a large portion of the plates, the elongation of the images is imperceptible. With exposures of an hour it is best for the observer to watch the images every few minutes. Circular images can be obtained on the Pole with exposures of an hour, or more, without touching the instrument. In fact, this is the method employed of adjusting the polar axis. Ordinarily, a photograph of each of the regions was taken with exposures of 60^m and 1^m, moving the telescope a few seconds in right ascension after the first exposure. After discussing the matter with Professor KAPTEYN, it was decided to make but one plate of each region. These were measured twice instead of making one measure on two plates.

The 24-inch Bruce Telescope, mounted at Arequipa, was used for the southern regions and for a portion of those on the Equator. This instrument was constructed by Messrs. Alvan Clark and Sons, and the objective is also a Petzval portrait lens Its aperture is 24 inches (61 cm), the scale is $59''.7 = 1$ mm , so that the focal length is 136 inches (345 cm.). The plates used with this instrument were ordinarily 14 × 17 inches, but sometimes 8 × 10 plates were employed. The driving clock is controlled by a Bond's spring governor.

A third instrument, the 8-inch Bache Telescope, was used for determining the magnitudes of the southern stars. Its aperture is 8 inches (20 cm.) and its scale is $178'' = 1$ mm., so that the focal length is 116 inches (29 cm.).

The plates taken before May 4, 1911, were Seed G. E. 27. After then, Hammer Special plates were used. This included all of the plates taken in series and a large part of those having longer exposures.

Photographic Magnitudes.

It is of the greatest importance that the scale of magnitudes, in this and similar work, should be the same for stars in all parts of the sky. In 1909, the Comité international permanent pour l'exécution de la carte photographique du ciel, appointed a committee to consider this subject having as members astronomers from England, France, Germany, Holland, Russia, and the United States. Publications of the meeting (B. 105). This committee held several meetings in 1910 and 1913, and unanimously agreed upon a plan which is described in Bulletin 6, 391. According to this plan, the starting point of the scale is the magnitude given in the Revised Harvard Photometry, H. A. **50**, of stars whose spectrum is of

Class A0, and the magnitude 5.5 to 6.5. These magnitudes are adopted for such stars both on the visual and the photographic scale. For other stars, the scale of Pogson is adopted. One magnitude corresponds to the ratio 2.512, whose logarithm is 0.400. Accordingly, a tenth magnitude star will be about 2.5 times as bright as an eleventh magnitude star, and exactly one hundred times as bright as a star of the fifteenth magnitude. A sequence of stars near the North Pole from the second to the twentieth magnitude was measured in a variety of ways as described in H. A. **71**, No. 3, and the magnitudes given on page 231 were adopted. As the principal nations of the world were represented on this Committee, the scale will be designated as the International Scale of Stellar Magnitudes.

The method of deriving the magnitudes of other stars must next be considered Sealed boxes were received from the makers, each containing twelve photographic plates, 8 × 10 inches. These were exposed successively in the telescope for exactly ten minutes. The first, sixth, and twelfth plates were exposed on the North Pole. The remaining plates were exposed to the Selected Areas or other regions desired. Generally, one of the Harvard Standard Regions was included and one near lower culmination. All of the plates were developed together in a tank, in which they were raised and lowered automatically by a pendulum. A sequence of stars was selected and marked on each plate. The intervals were about a third of a magnitude from the ninth magnitude to the faintest objects visible. The measurements were made by comparison with 4 scales formed by successive images having exposures of 3, 9, 27, 81, 243, 729, and 1, 2, 4, 8, 16, 32, 64, 128, 256, 516, 1018 seconds. The images were numbered successively, and the intensity of each star in the sequence was estimated in tenths of the intervals. The plates were always measured in the order in which they were taken. The means of the measures of the three plates on the Pole were taken and points plotted having abscissas equal to the means of the readings, and ordinates equal to the differences found by subtracting the adopted magnitudes given in H. A. **71** from the mean readings. A smooth curve was next drawn through those points by the writer. The magnitudes of the stars on the other plates were then found graphically from these curves.

The results of these measures are contained in Table A. The successive columns give the number of the star in the Catalogue; the diameter of the image as measured in Groningen; the magnitudes derived at Harvard (H); the Groningen magnitudes (G) given in the Catalogue; the residual found by subtracting the Harvard from the Groningen magnitude. When this difference exceeds 0.69, the Harvard magnitude was reexamined, and the individual magnitudes are given in the Remarks following Table A. A dash in column G means that the magnitude given in the catalogue is simply copied from the Harvard standards.

TABLE A. *Standard Stars.*

No.	Diam.	H.	G.	G.—H.
AREA 1.				
154	80.0	7.11	—	—
158	15.0	9.91	9.86	— 0.05
27	14.8	10.04	10.06	+ 0.02
44	13.8	10.35	10.32	— 0.03
203	11.5	10.85	11.05	+ 0.20
91	10.0	11.28	11.47	+ 0.19
95	9.5	11.88	11.64	— 0.24
311	7.5	12.36	12.32	— 0.04
303	7.5	12.47	12.32	— 0.15
239	5.5	13.12	13.04	— 0.08
220	5.0	13.46	13.22	— 0.24
244	2.5	14.12	14.18	+ 0.06
134	2.5	14.20	14.18	— 0.02
209	1.8	14.52	14.50	— 0.02
271	1.5	14.56	14.65	+ 0.09
156	1.5	14.60	14.65	+ 0.05
235	0.5	15.10	15.22	+ 0.12
236	0.2	15.47	15.44	— 0.03
296	— 0.2	15.90	15.75	— 0.15

No.	Diam.	H.	G.	G.—H.
AREA 2.				
343	17.5	8.57	—	—
340	17.0	8.72	—	—
186	15.5	9.53	9.37	— 0.16
189	14.5	9.96	9.95	— 0.01
40	11.0	10.67	10.87	+ 0.20
358	10.0	11.32	11.46	+ 0.14
309	9.5	11.55	11.66	+ 0.11
148	9.5	11.87	11.66	— 0.21
53	9.0	12.05	11.86	— 0.19
13	8.5	12.25	12.07	— 0.18
22	8.0	12.67	12.28	— 0.39
47	6.0	12.81	13.15	+ 0.34
89	5.0	13.39	13.59	+ 0.20
48	5.8	13.25	13.24	— 0.01
223	2.8	14.72	14.51	— 0.21
221	1.5	15.36	15.06	— 0.30

No.	Diam.	H.	G.	G.—H.
AREA 3.				
103	20.0	8.64	—	—
267	20.0	8.83	—	—
172	11.5	10.85	10.91	+ 0.06
176	8.0	11.56	12.04	+ 0.48
126	12.0	10.98	10.88	— 0.10
189	8.5	11.84	11.88	+ 0.04
97	8.0	12.05	12.04	— 0.01
24	7.0	12.54	12.35	— 0.19
161	5.7	13.00	12.77	— 0.23
30	4.0	13.40	13.34	— 0.06
32	2.8	13.68	13.78	+ 0.10
153	2.3	13.60	13.97	+ 0.37
178	0.8	14.28	14.30	+ 0.02
99	—	14.70	14.64	— 0.06
157	1.0	14.52	14.51	— 0.01

No.	Diam.	H.	G.	G.—H.
AREA 4.				
358	28.0	7.38	—	—
78	21.0	8.16	—	—
175	14.5	9.56	9.37	— 0.19
304	14.0	9.85	9.93	+ 0.08
238	13.0	10.54	10.47	— 0.07
199	10.0	10.91	11.10	+ 0.19
188	9.0	11.69	11.48	— 0.21
108	8.5	11.72	11.67	— 0.05
101	7.0	12.30	12.25	— 0.05
326	6.0	12.06	12.65	+ 0.59
95	6.8	12.40	12.33	— 0.07
195	5.8	13.06	12.73	— 0.33
106	3.0	13.52	13.84	+ 0.32
181	2.4	13.83	14.08	+ 0.25
170	2.3	14.50	14.12	— 0.38

No.	Diam.	H.	G.	G.—H.
Area 5.				
439	20.0	8.09	—	—
534	16.0	8.79	8.87	+ 0.08
299	14.0	9.07	9.16	+ 0.09
164	15.2	9.39	9.43	+ 0.04
319	13.0	10.03	9.99	— 0.04
300	12.5	10.23	10.21	— 0.02
232	10.0	10.90	10.82	— 0.08
244	9.5	11.60	11.07	— 0.53
389	8.5	12.04	11.41	— 0.63
271	7.0	12.28	11.94	— 0.34
172	3.5	13.13	13.28	+ 0.15
171	3.3	13.42	13.36	— 0.06
255	1.0	14.08	14.33	+ 0.25

No.	Diam.	H.	G.	G.—H.
Area 6.				
225	12.0	10.10	10.10	0.00
269	12.0	10.31	10.28	— 0.03
160	11.5	10.44	10.48	+ 0.04
115	10.0	10.77	10.87	+ 0.10
215	10.0	10.97	10.89	— 0.08
290	8.5	11.71	11.48	— 0.23
103	7.0	12.09	12.05	— 0.04
221	7.5	12.15	11.86	— 0.29
218	5.5	12.43	12.64	+ 0.21
166	5.3	12.88	12.72	— 0.16
172	4.3	13.00	13.13	+ 0.13
276	2.7	13.84	13.84	0.00
230	2.5	14.03	13.93	— 0.10
233	2.2	13.96	14.07	+ 0.11
184	1.2	14.56	14.56	0.00
174	0.7	14.91	14.82	— 0.09
231	— 0.2	15.60	15.36	— 0.24

No.	Diam.	H.	G.	G.—H.
Area 7.				
99	20.0	8.87	—	—
434	15.0	9.68	—	—
393	13.0	10.21	—	—
215	11.2	10.75	10.75	0.00
462	10.0	10.99	11.10	+ 0.11
284	9.0	11.28	11.45	+ 0.17
562	8.5	12.05	11.71	— 0.34
566	8.5	12.37	11.86	— 0.51
431	7.0	12.53	12.41	— 0.12
422	6.8	12.66	12.49	— 0.17
276	5.2	13.39	13.15	— 0.24
630	3.0	13.71	14.13	+ 0.42
638	3.0	13.91	14.13	+ 0.22
609	2.8	14.24	14.24	0.00
423	2.3	14.50	14.50	0.00
449	2.0	14.81	14.66	— 0.15
232	1.8	15.32	14.78	— 0.54

No.	Diam.	H.	G.	G.—H.
Area 8.				
566	21.0	8.18	—	—
94	11.0	9.99	—	—
380	12.5	9.95	—	—
702	8.5	10.95	10.88	— 0.07
724	9.0	11.17	10.95	— 0.22
391	8.0	11.30	11.20	— 0.10
398	6.0	11.92	12.05	+ 0.13
711	6.0	12.32	12.05	— 0.27
715	5.0	12.86	12.43	— 0.43
516	3.2	12.99	13.16	+ 0.17
520	2.3	13.31	13.56	+ 0.25
533	2.0	13.48	13.70	+ 0.22
366	1.5	14.23	13.96	— 0.27
589	0.7	14.57	14.42	— 0.15
693	0.1	14.76	14.85	+ 0.09

No.	Diam.	H.	G.	G.—H.
AREA 9.				
130	36.5	7.03	—	—
320	27.5	7.97	—	—
253	26.0	8.69	—	—
9	23 0	9.24	—	—
145	19.0	9.63	—	—
23	19.0	9.84	—	—
207	15.5	10.76	10.86	+ 0.10
163	11.0	11.43	11.66	+ 0.23
46	10.2	12.15	12.16	+ 0.01
241	8.5	12.63	12.71	+ 0.08
247	8.5	12.73	12.71	— 0.02
117	8.0	12.94	12 88	— 0.06
213	5.3	13.60	13.84	+ 0.24
58	6.0	14.20	13.58	— 0.62
224	3.7	14.51	14.47	— 0.04

No.	Diam.	H.	G.	G.—H.
AREA 10.				
136	30.0	7.11	—	—
128	17.5	8.76	—	—
126	12.5	9.82	9.98	+ 0.16
242	15.0	9.97	9.87	— 0.10
207	12.0	10.95	10.88	— 0.07
32	9.0	11.54	11.89	+ 0.35
127	8.5	11.81	12.08	+ 0.27
217	9.0	12.38	11.89	— 0.49
227	7.0	13.00	12.67	— 0.33
183	5.5	13.16	13.25	+ 0.09
196	5.0	13.68	13.45	— 0.23
102	3.0	14.26	14.24	— 0.02
130	1.5	14.28	14.88	+ 0.60
103	2.0	14.84	14.66	— 0.18

No.	Diam.	H.	G.	G.—H.
AREA 11.				
240	50.0	6.69	—	—
354	22.0	7.93	—	—
566	19.5	9.00	9.03	+ 0.03
17	13.2	9.80	9.86	+ 0.06
344	10.0	10.43	10.54	+ 0.11
245	10.0	10.99	11.12	+ 0.13
378	9.5	11.31	11.28	— 0.03
328	10.0	11.35	11.16	— 0.19
237	9.0	11.75	11.44	— 0.31
337	8.5	12.00	11.62	— 0.38
490	6.5	12.68	12.38	— 0.30
349	4.0	13.40	13.47	+ 0.07
352	2.8	13.82	14.04	+ 0.22
361	2.2	14.06	14.35	+ 0.29
353	1.7	14.96	14.61	— 0.35
230	0.7	15.55	15.19	— 0.36

No.	Diam.	H.	G.	G.—H.
AREA 12.				
199	23.5	7.89	—	—
204	19.0	8.47	8.48	+ 0.01
134	18.0	9.35	9.51	+ 0.16
216	13.0	10.22	10.29	+ 0.07
200	11.0	11.09	11.00	— 0.09
155	10.0	11.25	11.32	+ 0.07
315	8.2	11.87	11.90	+ 0.03
213	8.5	12.02	11.96	— 0.06
307	7.0	12.22	12.29	+ 0.07
149	4.5	12.79	13.10	+ 0.31
146	3.8	13.31	13 34	+ 0.03
215	3.0	13.64	13.63	— 0.01
212	1.7	14.11	14.16	+ 0.05
194	0.8	14.54	14.55	+ 0.01
252	1.0	14.28	14.46	+ 0.18

No.	Diam.	H.	G.	G.—H.
		AREA 13.		
172	21.0	8.05	—	—
190	14.5	9.39	9.32	— 0.07
251	14.0	9.55	9.63	+ 0.08
88	14.5	9.60	9.48	— 0.12
210	12.0	10.41	10.79	+ 0.38
224	11.5	11.08	11.16	+ 0.08
273	11.5	11.37	11.16	— 0.21
278	10.0	11.83	11.79	— 0.04
284	9.5	12.08	11.99	— 0.09
286	6.5	13.10	13.11	+ 0.01
208	5.7	13.38	13.38	0.00
128	5.2	13.75	13.55	— 0.20
84	6.0	14.12	13.28	— 0.84
126	2.0	14.50	14.65	+ 0.15
220	2.8	14.33	14.38	+ 0.05

No.	Diam.	H.	G.	G.—H.
		AREA 14.		
158	12.0	9.68	10.14	+ 0.46
219	12.5	9.93	9.98	+ 0.05
16	12.0	10.12	10.14	+ 0.02
59	11.5	10.43	10.30	— 0.13
93	9.5	10.85	10.96	+ 0.11
248	7.5	11.51	11.66	+ 0.15
238	8.0	11.77	11.48	— 0.29
172	5.7	12.30	12.32	+ 0.02
132	5.5	12.42	12.40	— 0.02
154	3.7	12.92	13.13	+ 0.21
148	3.5	13.24	13.22	— 0.02
137	3.0	13.44	13.44	0.00
182	2.3	13.52	13.78	+ 0.26
136	2.3	14.00	13.78	— 0.22

No.	Diam.	H.	G.	G.—H.
		AREA 15.		
318	20.0	9.35	—	—
362	16.5	9.52	9.55	+ 0.03
226	14.5	10.18	10.32	+ 0.14
207	13.0	10.53	10.42	— 0.11
479	12.0	10.68	10.82	+ 0.14
495	12.0	10.98	10.89	— 0.09
403	9.0	11.52	11.78	+ 0.26
586	9.0	11.92	11.78	— 0.14
383	8.0	12.29	12.13	— 0.16
196	6.5	12.51	12.71	+ 0.20
526	6.5	12.84	12.71	— 0.13
106	4.8	13.23	13.42	+ 0.19
119	4.5	13.42	13.55	+ 0.13
133	4.3	13.87	13.64	— 0.23
374	3.0	14.20	14.26	+ 0.06
377	2.2	14.45	14.68	+ 0.23
289	3.0	14.65	14.26	— 0.39
203	1.5	14.86	15.06	+ 0.20
134	0.8	15.66	15.48	— 0.18

No.	Diam.	H.	G.	G.—H.
		AREA 16.		
142	20.0	8.69	—	—
200	17.0	9.26	—	—
198	12.5	10.08	10.36	+ 0.28
183	12.5	10.48	10.52	+ 0.04
231	11.5	10.54	10.74	+ 0.20
141	11.5	10.72	10.74	+ 0.02
211	9.5	11.43	11.38	— 0.05
73	9.5	11.60	11.38	— 0.22
77	7.5	11.65	12.03	+ 0.38
152	7.5	12.39	12.03	— 0.36
138	8.0	12.45	11.86	— 0.59
272	4.8	12.77	12.99	+ 0.22
267	3.8	12.90	13.37	+ 0.47
203	4.5	13.38	13.10	— 0.28
135	4.1	13.75	13.25	— 0.50
161	1.0	14.60	14.57?	— 0.03
129	— 0.3	15.48	15.38	— 0.10

No.	Diam.	H.	G.	G.—H.
AREA 17.				
174	20.0	8.44	—	—
15	15.5	9.48	9.54	+ 0.06
100	14.5	10.02	9.99	— 0.03
182	12.0	10.25	10.37	+ 0.12
180	11.0	10.63	10.57	— 0.06
273	10.0	11.10	11.01	— 0.09
194	10.0	11.21	11.01	— 0.20
256	6.5	12.14	12.18	+ 0.04
356	5.0	12.87	12.75	— 0.12
161	3.8	13.32	13.23	— 0.09
268	2.8	13.51	13.66	+ 0.15
266	1.8	14.07	14.09	+ 0.02
186	1.2	14.38	14.39	+ 0.01
265	0.2	14.73	15.00	+ 0.27
259	1.2	14.89	14.39	— 0.50
162	0.0	15.34	15.13	— 0.21

No.	Diam.	H.	G.	G.—H.
AREA 18.				
540	15.0	9.44	9.67	+ 0.23
177	17.0	10.28	10.21	— 0.07
567	12.0	11.01	11.28	+ 0.27
664	12.0	11.18	11.54	+ 0.36
80	12.0	12.09	11.82	— 0.27
559	11.0	12.14	12.01	— 0.13
814	10.0	12.43	12.38	— 0.05
718	8.5	12.93	12.93	0.00
405	8.5	13.26	12.93	— 0.33
136	6.0	13.85	13.87	+ 0.02
451	5.2	14.20	14.17	— 0.03
638	4.0	14.48	14.62	+ 0.14
518	2.1	14.72	15.41	+ 0.69
525	1.8	15.14	15.54	+ 0.40

No.	Diam.	H.	G.	G.—H.
AREA 19.				
621	18.0	8.95	—	—
940	15.5	9.79	—	—
213	15.0	10.09	—	—
571	14.5	10.68	10.58	— 0.10
521	11.0	11.08	11.39	+ 0.31
442	11.0	11.29	11.39	+ 0.10
1008	10.0	11.66	11.72	+ 0.06
888	10.0	11.91	11.72	— 0.19
774	8.5	12.22	12.21	— 0.01
776	7.0	12.64	12.71	+ 0.07
393	6.0	13.00	13.04	+ 0.04
347	4.5	13.52	13.53	+ 0.01
343	3.7	13.80	13.81	+ 0.01
327	1.2	14.31	14.92	+ 0.61
331	0.2	14.80	15.63	+ 0.83

No.	Diam.	H.	G.	G.—H.
AREA 20.				
297	21.5	8.63	—	—
39	16.5	9.72	9.79	+ 0.07
245	15.0	9.79	9.66	— 0.13
340	10.0	10.81	10.91	+ 0.10
420	12.5	10.30	10.42	+ 0.12
291	10.0	10.95	10.96	+ 0.01
72	8.5	11.53	11.63	+ 0.10
139	9.0	11.98	11.72	— 0.26
315	6.0	12.26	12.50	+ 0.24
278	5.0	12.77	12.88	+ 0.11
148	5.4	13.00	12.73	— 0.27
175	3.2	13.59	13.67	+ 0.08
57	2.8	13.96	13.86	— 0.10
406	2.2	14.14	14.17	+ 0.03
308	1.8	14.60	14.38	— 0.22
318	0.8	14.86	14.98	+ 0.12

No.	Diam.	H.	G.	G.—H.
AREA 21.				
170	33.5	7.02	—	—
391	31.5	7.84	—	—
485	18.0	9.52	9.50	— 0.02
281	17.0	9.88	9.98	+ 0.10
234	15.0	10.26	10.33	+ 0.07
689	13.5	10.84	10.86	+ 0.02
666	12.5	10.97	10.86	— 0.11
454	12.0	11.57	11.41	— 0.16
464	9.0	12.37	12.21	— 0.16
510	6.5	12.84	13.06	+ 0.22
650	5.2	13.32	13.54	+ 0.22
263	4.2	13.90	13.92	+ 0.02
508	4.0	14.22	14.00	— 0.22
443	2.8	14.42	14.50	+ 0.08
283	3.0	14.46	14.41	— 0.05
279	1.7	15.27	14.98	— 0.29
243	0.8	15.69	15.41	— 0.28

No.	Diam.	H.	G.	G.—H.
AREA 22.				
462	36.5	7.70	—	—
630	29.0	8.22	—	—
752	20.0	9.77	9.63	— 0.14
359	20.0	9.89	9.99	+ 0.10
279	18.0	10.75	10.79	+ 0.04
401	14.0	11.26	11.49	+ 0.23
390	13.0	11.83	11.65	— 0.18
703	10.5	12.43	12.39	— 0.04
590	10.0	12.67	12.54	— 0.13
336	8.0	12.82	13.15	+ 0.33
618	7.0	13.54	13.48	— 0.06
588	6.0	13.87	13.84	— 0.03
403	5.0	14.23	14.22	— 0.01
607	4.0	14.55	14.62	+ 0.07
402	3.5	14.82	14.82	0.00
249	2.7	15.25	15.16	— 0.09

No.	Diam.	H.	G.	G.—H.
AREA 23.				
605	35.0	7.36	—	—
437	29.0	7.86	—	—
300	17.5	9.62	—	—
443	10.0	10.89	11.00	+ 0.11
264	9.5	11.14	11.03	— 0.11
246	8.0	11.46	11.40	— 0.06
476	7.0	12.22	11.97	— 0.25
331	6.0	12.38	12.37	— 0.01
311	5.0	12.87	12.82	— 0.05
307	4.0	13.22	13.31	+ 0.09
411	2.7	14.14	14.01	— 0.13
405	2.3	14.20	14.24	+ 0.04
386	1.0	14.86	15.02	+ 0.16
384	1.3	15.10	14.84	— 0.26
25	1.0	15.37	15.02	— 0.35
568	0.3	15.77	15.48	— 0.29

No.	Diam.	H.	G.	G.—H.
AREA 24.				
13	30.0	7.78	—	—
505	16.0	9.43	—	—
403	16.5	9.81	—	—
165	11.0	10.79	11.04	+ 0.25
378	10.0	11.39	11.35	— 0.04
252	9.5	11.76	11.51	— 0.25
381	8.0	11.92	12.01	+ 0.09
382	7.5	12.21	12.19	— 0.02
304	6.0	12.98	12.77	— 0.21
326	4.8	13.14	13.26	+ 0.12
330	4.3	13.50	13.47	— 0.03
368	2.7	14.06	14.17	+ 0.11
176	2.3	14.29	14.35	+ 0.06
179	1.8	14.44	14.59	+ 0.15
175	1.3	14.94	14.85	— 0.09

No.	Diam.	H.	G.	G.—H.
Area 25.				
162	28.0	7.40	—	—
262	23.5	7.77	—	—
227	15.5	9.17	—	—
193	13.0	10.29	10.53	+ 0.24
92	10.5	11.13	11.13	0.00
429	9.5	11.43	11.61	+ 0.18
90	8.0	12.12	12.25	+ 0.13
54	7.0	12.43	12.67	+ 0.24
221	7.5	12.60	12.46	— 0.14
320	7.5	12.95	12.46	— 0.49
184	6.0	13.39	13.08	— 0.31
283	4.8	13.59	13.58	— 0.01
294	3.8	14.11	13.99	— 0.12
197	2.5	14.69	14.52	— 0.17

No.	Diam.	H.	G.	G.—H.
Area 26.				
43	30.0	6.54	—	—
85	17.0	7.66	—	—
234	13.0	9.55	9.64	+ 0.09
150	12.0	10.09	10.15	+ 0.06
219	10.5	10.73	10.80	+ 0.07
120	9.0	11.23	11.38	+ 0.15
280	9.0	11.67	11.38	— 0.29
263	7.5	12.37	12.03	— 0.34
159	5.2	12.90	13.01	+ 0.11
230	4.3	13.21	13.39	+ 0.18
262	4.2	13.44	13.43	— 0.01
149	1.5	14.42	14.59	+ 0.17
72	1.5	14.51	14.59	+ 0.08
233	1.3	14.58	14.67	+ 0.09
272	1.0	14.87	14.80	— 0.07

No.	Diam.	H.	G.	G.—H.
Area 27.				
156	13.0	9.29	9.21	— 0.08
242	11.5	9.79	9.82	+ 0.03
212	12.0	9.58	9.59	+ 0.01
210	11.0	10.09	10.31	+ 0.22
328	10.0	10.76	11.01	+ 0.25
228	10.2	10.99	10.81	— 0.18
244	9.5	11.58	11.09	— 0.49
252	7.8	12.00	11.89	— 0.11
227	6.5	12.56	12.49	— 0.07
220	6.2	12.76	12.63	— 0.13
320	5.2	13.10	13.08	— 0.02
240	4.2	13.39	13.51	+ 0.12
245	3.3	13.57	13.88	+ 0.31
233	2.5	14.27	14.18	— 0.09
243	1.2	14.61	14.62	+ 0.01

No.	Diam.	H.	G.	G.—H.
Area 28.				
17	25.5	8.90	—	—
203	15.5	9.99	10.23	+ 0.24
136	16.0	10.04	9.93	— 0.11
148	14.0	10.40	10.49	+ 0.09
129	15.0	10.53	10.51	— 0.02
43	10.0	11.23	11.26	+ 0.03
23	11.5	11.09	11.00	— 0.09
96	11.0	11.53	11.19	— 0.34
196	9.0	11.58	11.77	+ 0.19
194	6.5	12.50	12.54	+ 0.04
132	7.5	12.67	12.22	— 0.45
135	4.7	12.84	13.15	+ 0.31
81	4.5	13.15	13.22	+ 0.07
73	2.8	13.72	13.86	+ 0.14
60	2.5	14.15	13.99	— 0.16
55	0.3	14.70	15.09	+ 0.39

No.	Diam.	H.	G.	G.—H.
AREA 29.				
365	22.0	7.83	—	—
303	18.0	8.60	—	—
251	15.5	9.69	9.36	— 0.33
322	13.0	9.88	9.92	+ 0.04
172	11.5	10.70	10.76	+ 0.06
290	10.0	11.10	11.12	+ 0.02
183	9.5	11.13	11.31	+ 0.18
370	8.8	11.71	11.59	— 0.12
288	7.0	12.51	12.32	— 0.19
215	5.7	12.61	12.86	+ 0.25
223	6.0	12.93	12.73	— 0.20
294	2.5	14.13	14.22	+ 0.09
218	2.5	14.34	14.22	— 0.12
360	1.0	14.78	14.91	+ 0.13
385	1.7	14.80	14.59	— 0.21

No.	Diam.	H.	G.	G.—H.
AREA 30.				
58	24.0	8.12	8.33	+ 0.21
352	22.0	9.02	8.83	— 0.19
289	18.9	9.77	9.73	— 0.04
211	15.5	10.14	10.07	— 0.07
398	13.0	10.56	10.65	+ 0.09
413	12.5	10.92	10.85	— 0.07
254	10.5	11.13	11.51	+ 0.38
204	10.5	11.51	11.51	0.00
148	9.0	12.22	12.07	— 0.15
214	8.5	12.50	12.27	— 0.23
276	6.0	12.98	13.29	+ 0.31
144	6.5	13.49	13.08	— 0.41
141	5.8	13.61	13.37	— 0.24
212	3.5	14.18	14.29	+ 0.11
280	2.7	14.43	14.63	+ 0.20
275	1.7	14.89	15.05	+ 0.16
274	1.0	15.46	15.36	— 0.10

No.	Diam.	H.	G.	G.—H.
AREA 31.				
119	19.0	7.67	—	—
83	14.0	8.30	8.42	+ 0.12
155	13.0	8.91	9.24	+ 0.33
185	10.5	9.63	9.84	+ 0.21
248	11.0	10.15	9.82	— 0.33
210	10.0	10.37	10.46	+ 0.09
203	8.5	10.82	10.89	+ 0.07
212	7.0	11.40	11.63	+ 0.23
50	9.5	11.80	10.42	— 1.38
46	6.0	12.45	12.15	— 0.30
86	4.5	12.50	12.96	+ 0.46
120	3.5	13.08	13.50	+ 0.42
125	3.5	13.30	13.50	+ 0.20
82	5.0	13.80	12.69	— 1.11
166	3.0	13.78	13.78	0.00
39	1.8	14.44	14.45	+ 0.01
40	1.2	14.87	14.79	— 0.08
116	0.3	15.23	15.28	+ 0.05

No.	Diam.	H.	G.	G.—H.
AREA 32.				
114	26.0	8.36	—	—
272	20.0	9.35	—	—
282	14.5	10.49	10.46	— 0.03
338	12.0	11.24	11.21	— 0.03
379	10.0	11.75	11.83	+ 0.08
178	9.5	11.86	12.00	+ 0.14
317	7.5	12.67	12.73	+ 0.06
316	7.5	12.88	12.73	— 0.15
32	6.5	13.03	13.11	+ 0.08
76	4.7	13.72	13.85	+ 0.13
368	3.7	13.84	14.29	+ 0.45
105	5.7	13.96	13.43	— 0.53
107	4.3	14.06	14.02	— 0.04
147	3.2	14.44	14.53	+ 0.09
153	3.2	14.80	14.53	— 0.27

No.	Diam.	H.	G.	G.—H.
AREA 33.				
117	30.0	8.03	—	—
267	18.5	9.37	9.42	+ 0.05
133	18.0	9.78	9.81	+ 0.03
261	13.5	10.78	10.66	— 0.12
195	10.5	11.08	11.19	+ 0.11
136	10.5	11.40	11.30	— 0.10
280	6.5	12.66	12.72	+ 0.06
283	5.7	13.19	13.03	— 0.16
225	3.3	13.63	14.02	+ 0.39
220	3.2	14.01	14.06	+ 0.05
218	3.2	14.22	14.06	— 0.16
387	3.0	14.16	14.15	— 0.01
394	1.2	14.87	15.04	+ 0.17
388	1.5	15.08	14.88	— 0.20
389	0.8	15.23	15.26	+ 0.03

No.	Diam.	H.	G.	G.—H.
AREA 34.				
467	28.0	8.02	—	—
324	24.0	8.37	—	—
380	20.0	9.16	8.85	— 0.31
72	16.5	9.38	9.36	— 0.02
331	12.0	10.54	10.61	+ 0.07
553	10.5	10.68	10.98	+ 0.30
500	9.0	11.46	11.51	+ 0.05
559	8.0	11.85	11.89	+ 0.04
495	7.5	12.19	12.09	— 0.10
429	7.0	12.43	12.29	— 0.14
202	5.5	12.90	12.95	+ 0.05
167	6.0	13.32	12.72	— 0.60
351	4.7	13.53	13.32	— 0.21
258	3.2	13.84	14.05	+ 0.21
393	3.0	13.98	14.15	+ 0.17
250	2.2	14.59	14.54	— 0.05

No.	Diam.	H.	G.	G.—H.
AREA 35.				
245	40.0	7.04	—	—
518	20.0	8.90	—	—
338	17.0	9.31	—	—
273	15.0	9.61	9.63	+ 0.02
225	13.5	9.84	9.87	+ 0.03
172	11.8	10.25	10.32	+ 0.07
163	12.5	10.74	10.56	— 0.18
567	8.5	11.67	11.91	+ 0.24
407	8.0	11.92	12.11	+ 0.19
336	8.5	12.14	11.91	— 0.23
279	6.8	12.76	12.57	— 0.19
280	5.3	12.88	13.17	+ 0.29
503	3.8	13.38	13.79	+ 0.41
437	4.5	13.41	13.50	+ 0.09
443	3.7	14.02	13.84	— 0.18
436	2.2	14.23	14.48	+ 0.25
516	1.2	15.03	14.94	— 0.09
635	0.3	15.55	15.37	— 0.18

No.	Diam.	H.	G.	G.—H.
AREA 36.				
255	15.0	9.00	—	—
239	13.0	9.58	—	—
128	12.0	9.90	—	—
383	10.0	10.67	10.92	+ 0.25
206	10.0	10.70	10.92	+ 0.22
229	10.0	11.14	10.92	— 0.22
395	9.5	11.36	11.12	— 0.24
115	8.5	11.59	11.67	+ 0.08
99	8.0	12.14	11.90	— 0.24
341	6.0	12.68	12.78	+ 0.10
178	5.5	13.24	13.00	— 0.24
187	6.0	13.63	12.78	— 0.85
271	1.8	14.11	14.56	+ 0.45
261	2.5	14.37	14.27	— 0.10
242	2.2	14.43	14.40	— 0.03

No.	Diam.	H.	G.	G.—H.
AREA 37.				
214	29.0	7.33	—	—
136	16.5	9.03	—	—
303	15.0	9.53	9.71	+ 0.18
126	14.8	9.91	9.92	+ 0.01
287	11.5	10.72	10.47	— 0.25
125	10.0	10.86	10.91	+ 0.05
97	9.5	11.31	11.07	— 0.24
302	7.5	11.97	11.90	— 0.07
213	7.0	12.44	12.07	— 0.37
200	5.0	12.89	12.74	— 0.15
297	3.2	13.15	13.44	+ 0.29
294	2.5	13.56	13.74	+ 0.18
291	2.5	13.74	13.74	0.00
111	2.0	14.05	13.97	— 0.08
285	0.8	14.59	14.59	0.00
202?	— 0.3	15.05	15.45	+ 0.40

No.	Diam.	H.	G.	G.—H.
AREA 38.				
229	42.5	6.70	—	—
391	20.0	9.30	—	—
326	18.0	9.68	—	—
253	13.0	10.73	—	—
377	13.0	10.81	—	—
351	9.0	12.22	11.95	— 0.27
106	7.5	12.34	12.36	+ 0.02
203	5.0	13.08	13.12	+ 0.04
27	5.3	13.35	13.02	— 0.33
220	3.3	13.68	13.72	+ 0.04
191	2.7	13.82	13.97	+ 0.15
536	2.2	14.11	14.19	+ 0.08
234	2.0	14.11	14.28	+ 0.17
261	2.2	13.90	14.19	+ 0.29
509	0.8	15.02	14.95	— 0.07

No.	Diam.	H.	G.	G.—H.
AREA 39.				
913	20.0	9.02	—	—
963	17.5	9.62	—	—
611	12.5	10.37	—	—
510	11.0	11.05	—	—
817	10.0	11.30	—	—
634	9.0	11.92	11.80	— 0.12
983	9.0	12.17	11.80	— 0.37
1389	7.5	12.56	12.32	— 0.24
920	7.0	13.12	12.50	— 0.62
517	3.0	13.93	14.10	+ 0.17
666	2.2	14.24	14.46	+ 0.22
990	2.0	14.32	14.55	+ 0.23
839	1.3	14.82	14.89	+ 0.07
503	1.3	14.90	14.89	— 0.01
888	0.8	15.60	15.13	— 0.47

No.	Diam.	H.	G.	G.—H.
AREA 40.				
203	20.0	9.53	—	—
366	16.0	10.63	—	—
216	12.0	11.21	—	—
232	10.0	11.82	11.94	+ 0.12
225	10.0	11.99	11.94	— 0.05
451	9.5	12.40	12.09	— 0.31
370	6.5	12.71	13.05	+ 0.34
235	6.5	13.04	13.05	+ 0.01
224	7.0	13.41	12.89	— 0.52
448	4.3	14.07	13.79	— 0.28
412	2.3	14.54	14.53	— 0.01
193	1.3	14.86	14.91	+ 0.05
180	0.7	15.04	15.14	+ 0.10
99	— 0.2	15.47	15.57	+ 0.10
443	— 0.3	15.77	15.76	— 0.01

No.	Diam.	H.	G.	G.—H.
Area 41.				
679	24.5	8.10	—	—
387	17.0	9.10	—	—
384	13.0	9.64	9.84	+ 0.20
61	15.0	9.90	9.86	— 0.04
605	11.5	10.59	10.72	+ 0.13
334	9.0	11.12	11.28	+ 0.16
149	9.5	11.46	11.22	— 0.24
587	6.5	12.00	12.13	+ 0.13
198	6.0	12.24	12.31	+ 0.07
641	6.2	12.58	12.24	— 0.34
481	4.5	12.74	12.88	+ 0.14
362	2.8	13.55	13.59	+ 0.04
197	1.0	14.22	14.51	+ 0.29
207	1.2	14.49	14.39	— 0.10
397	— 0.2	15.01	15.39	+ 0.38
415	— 0.2	15.77	15.39	— 0.38

No.	Diam.	H.	G.	G.—H.
Area 42.				
324	22.5	9.06	—	—
456	17.5	10.07	—	—
342	14.5	10.38	—	—
547	13.5	11.04	11.20	+ 0.16
731	11.5	11.75	11.57	— 0.18
331	10.0	11.89	11.80	— 0.09
741	10.0	12.43	12.03	— 0.40
718	7.5	12.89	12.96	+ 0.07
685	6.5	13.33	13.30	— 0.03
319	6.5	13.40	13.30	— 0.10
316	4.0	14.07	14.15	+ 0.08
363	4.5	14.21	13.98	— 0.23
351	3.2	14.55	14.44	— 0.11
344	1.2	14.74	15.21	+ 0.47
502	1.2	15.15	15.21	+ 0.06
682	0.0	15.40	15.70	+ 0.30

No.	Diam.	H.	G.	G.—H.
Area 43.				
132	23.0	8.17	—	—
294	14.0	9.75	—	—
158	15.0	10.00	—	—
93	11.5	10.44	10.47	+ 0.03
318	9.5	11.17	11.27	+ 0.10
89	10.0	11.21	11.10	— 0.11
204	8.0	11.77	11.80	+ 0.03
95	7.0	12.14	12.17	+ 0.03
184	6.5	12.53	12.36	— 0.17
199	5.5	12.63	12.76	+ 0.13
177	3.3	13.15	13.67	+ 0.52
168	2.2	13.99	14.14	+ 0.15
164	1.2	14.19	14.59	+ 0.40
106	1.2	14.80	14.59	— 0.21
100	— 0.3	15.29	15.47	+ 0.18
167	0.0	15.20	15.13	— 0.07
284	— 0.2	16.05	15.28	— 0.77

No.	Diam.	H.	G.	G.—H.
Area 44.				
260	16.5	8.78	—	—
297	14.0	9.08	—	—
148	13.0	9.68	10.14	+ 0.46
87	13.5	9.96	10.04	+ 0.08
81	12.0	10.30	10.31	+ 0.01
190	10.5	10.90	10.85	— 0.05
106	10.0	11.03	11.00	— 0.03
392	9.5	11.20	10.98	— 0.22
265	8.5	11.36	11.42	+ 0.06
266	7.0	11.94	11.98	+ 0.04
247	6.5	12.13	12.13	0.00
164	6.0	12.23	12.30	+ 0.07
255	4.7	12.58	12.79	+ 0.21
242	4.0	12.92	13.08	+ 0.16
170	2.2	13.74	13.96	+ 0.22
182	1.7	14.54	14.25	— 0.29
108	0.7	15.05	14.93	— 0.12

No.	Diam.	H.	G.	G.—H.
		AREA 45.		
349	21.5	8.32	—	—
207	19.5	8.86	—	—
412	15.0	9.37	9.51	— 0.14
10	16.5	9.59	9.52	— 0.07
17	14.0	9.93	10.06	+ 0.13
188	11.5	10.70	10.64	— 0.06
369	8.5	10.91	11.01	+ 0.10
113	7.5	var.	11.76	—
110	8.0	11.71	11.59	— 0.12
201	4.5	12.62	12.95	+ 0.33
284	4.7	13.08	12.86	— 0.22
280	3.6	13.34	13.37	+ 0.03
288	2.8	13.59	13.76	+ 0.17
200	2.3	14.06	14.02	— 0.04
126	1.8	14.37	14.29	— 0.08

No.	Diam.	H.	G.	G.—H.
		AREA 46		
173	42.5	7.42	—	—
307	20.0	9.19	—	—
370	14.0	10.34	10.45	+ 0.11
336	15.5	10.42	10.39	— 0.03
331	12.0	10.89	11.19	+ 0.30
388	12.0	11.14	11.24	+ 0.10
296	11.5	11.58	11.38	— 0.20
371	8.0	12.42	12.45	+ 0.03
450	8.0	12.91	12.45	— 0.46
207	6.5	12.91	12.95	+ 0.04
395	3.5	13.72	14.06	+ 0.34
214	4.3	13.82	13.75	— 0.07
222	2.7	14.22	14.39	+ 0.17
223	2.3	14.89	14.56	— 0.33

No.	Diam.	H.	G.	G.—H.
		AREA 47.		
151	32.0	7.11	—	—
70	30.0	7.30	—	—
161	14.8	10.01	10.34	+ 0.33
146	12.0	10.59	10.55	— 0.04
213	13.0	10.70	10.62	— 0.08
162	10.0	11.33	11.40	+ 0.07
63	10.0	11.72	11.46	— 0.26
157	8.0	12.31	12.07	— 0.24
208	7.0	12.84	12.77	— 0.07
101	6.5	13.16	13.00	— 0.16
96	5.3	13.60	13.58	— 0.02
57	4.5	13.90	13.96	+ 0.06
206	2.8	14.62	14.79	+ 0.17
107	2.5	14.66	14.93	+ 0.27
204	1.5	15.69	15.41	— 0.28

No.	Diam.	H.	G.	G.—H.
		AREA 48.		
120	57.5	6.86	—	—
310	15.5	9.73	—	—
80	15.0	10.31	—	—
156	11.5	11.02	11.06	+ 0.04
362	10.0	11.01	11.36	+ 0.35
25	10.0	11.34	11.39	+ 0.05
112	9.5	11.79	11.57	— 0.22
199	9.0	12.25	11.95	— 0.30
140	7.0	12.62	12.76	+ 0.14
333	6.2	13.10	13.10	0.00
197	6.5	13.38	12.97	— 0.41
196	5.7	13.84	13.30	— 0.54
104	4.2	13.90	13.92	+ 0.02
73	3.3	14.16	14.29	+ 0.13
100	2.2	14.76	14.76	0.00

No.	Diam.	H.	G.	G.—H.
		AREA 49.		
601	14.0	9.93	—	—
714	11.5	10.33	10.64	+ 0.31
770	11.0	10.96	11.01	+ 0.05
843	12.5	10.73	10.69	— 0.04
341	10.0	11.42	11.33	— 0.09
363	9.5	11.64	11.46	— 0.18
575	7.5	12.28	12.35	+ 0.07
570	7.0	12.44	12.55	+ 0.11
519	5.5	12.88	13.17	+ 0.29
548	5.3	13.28	13.25	— 0.03
628	4.5	13.52	13.59	+ 0.07
652	6.0	13.94	12.96	— 0.98
324	2.0	14.78	14.69	— 0.09
620	1.7	14.80	14.82	+ 0.02

No.	Diam.	H.	G.	G.—H.
		AREA 50.		
726	31.0	8.09	—	—
83	20.0	9.22	—	—
763	15.0	10.01	—	—
428	10.0	10.95	11.11	+ 0.16
420	9.5	11.66	11.38	— 0.28
646	7.5	11.84	12.00	+ 0.16
417	6.5	12.35	12.34	— 0.01
1037	5.0	12.74	12.89	+ 0.15
768	5.7	12.96	12.63	— 0.33
1072	3.2	13.54	13.64	+ 0.10
459	3.5	13.54	13.51	— 0.03
653	2.2	14.13	14.11	— 0.02
685	1.8	14.30	14.31	+ 0.01
444	1.2	14.73	14.64	— 0.09
670	1.7	14.73	14.37	— 0.36

No.	Diam.	H.	G.	G.—H.
		AREA 51.		
301	20.0	9.65	—	—
622	20.0	9.55	—	—
568	14.0	10.21	10.33	+ 0.12
598	13.5	10.43	10.43	0.00
574	11.0	10.92	11.00	+ 0.08
303	11.2	11.10	11.10	0.00
535	9.0	11.79	11.86	+ 0.07
413	10.0	11.90	11.54	— 0.36
548	8.0	12.40	12.19	— 0.21
416	5.0	13.02	13.22	+ 0.20
561	5.0	13.06	13.22	+ 0.16
426	4.2	13.60	13.50	— 0.10
447	1.7	14.12	14.45	+ 0.33
327	1.8	14.38	14.41	+ 0.03
448	1.0	14.78	14.78	0.00

No.	Diam.	H.	G.	G.—H.
		AREA 52.		
94	35.5	8.08	—	—
427	36.0	8.35	—	—
601	24.0	9.40	—	—
453	15.0	10.36	10.68	+ 0.32
411	15.0	10.54	10.54	0.00
312	12.0	10.86	10.99	+ 0.13
309	10.0	11.43	11.49	+ 0.06
507	10.0	12.04	11.70	— 0.34
534	7.5	12.39	12.53	+ 0.14
536	7.0	12.75	12.72	— 0.03
293	6.5	13.11	12.92	— 0.19
417	5.7	13.28	13.24	— 0.04
419	5.2	13.52	13.45	— 0.07
423	3.8	13.78	14.06	+ 0.28
425	3.5	14.24	14.20	— 0.04
292	2.8	14.60	14.53	— 0.07
444	2.5	14.83	14.67	— 0.16
413	2.2	14.88	14.81	— 0.07

No.	Diam.	H.	G.	G.—H.
AREA 53.				
366	10.0	9.25	—	—
196	12.0	9.70	—	—
112	11.0	9.81	—	—
162	9.5	10.15	—	—
517	8.5	10.44	10.83	+ 0.39
376	9.0	10.61	10.61	0.00
354	6.5	11.66	11.90	+ 0.24
199	7.0	11.81	11.53	— 0.28
283	7.0	12.04	11.82	— 0.22
350	6.0	12.11	12.16	+ 0.05
348	4.7	12.51	12.84	+ 0.33
193	4.7	13.02	12.84	— 0.18
370	4.3	13.16	13.05	— 0.11
373	2.5	13.61	14.02	+ 0.41
438	1.8	14.42	14.42	0.00

No.	Diam.	H.	G.	G.—H.
AREA 54.				
239	26.0	7.52	—	—
264	23.7	8.09	—	—
200	13.0	9.53	—	—
243	15.5	9.53	—	—
253	12.0	10.43	10.55	+ 0.12
246	11.0	10.66	10.81	+ 0.15
105	10.5	10.84	10.90	+ 0.06
126	8.5	11.69	11.60	— 0.09
76	8.0	11.86	11.77	— 0.09
118	6.0	12.58	12.45	— 0.13
240	3.2	13.39	13.59	+ 0.20
232	2.8	13.50	13.78	+ 0.28
122	3.7	13.50	13.36	— 0.14
157	2.3	13.95	14.02	+ 0.07
193	1.3	14.44	14.54	+ 0.10

No.	Diam.	H.	G.	G.—H.
AREA 55.				
169	14.0	9.47	—	—
311	17.0	9.72	—	—
236	11.5	9.99	—	—
129	11.5	10.66	—	—
174	10.0	11.19	11.37	+ 0.18
21	10.0	11.47	11.31	— 0.16
23	8.0	12.16	11.98	— 0.18
74	8.2	12.30	11.91	— 0.39
75	6.2	12.51	12.64	+ 0.13
136	5.0	12.72	13.10	+ 0.38
171	4.8	13.08	13.18	+ 0.10
182	4.0	13.54	13.50	— 0.04
198	3.0	13.91	13.93	+ 0.02
242	2.7	14.20	14.06	— 0.14
343	2.3	14.34	14.24	— 0.10

No.	Diam.	H.	G.	G.—H.
AREA 56.				
292	26.0	8.70	—	—
196	29.0	8.86	—	—
215	19.5	9.53	—	—
191	14.0	10.06	—	—
168	13.0	10.83	11.04	+ 0.21
211	12.2	11.46	11.56	+ 0.10
210	11.0	11.81	11.71	— 0.10
268	9.5	12.30	12.39	+ 0.09
265	8.0	13.22	12.94	— 0.28
131	7.0	13.54	13.30	— 0.24
65	6.5	13.72	13.48	— 0.24
249	5.2	13.92	13.95	+ 0.03
137	5.2	14.04	13.95	— 0.09
143	6.5	14.16	13.48	— 0.68

No.	Diam.	H.	G.	G.—H.
Area 57.				
192	20.0	8.83	—	—
204	20.0	9.16	—	—
178	16.5	9.62	—	—
356	12.5	10.19	10.35	+ 0.16
5	15.0	10.20	10.09	— 0.11
9	11.0	10.93	11.06	+ 0.13
268	8.0	11.63	11.89	+ 0.26
349	8.0	12.18	11.89	— 0.29
231	7.0	12.36	12.26	— 0.10
226	6.0	12.60	12.67	+ 0.07
327	4.5	13.15	13.34	+ 0.19
284	4.5	13.43	13.34	— 0.09
292	3.6	13.57	13.78	+ 0.21
72	2.8	13.96	14.20	+ 0.24
61	2.7	14.36	14.26	— 0.10
124	2.2	14.82	14.54	— 0.28
181	1.7	15.36	14.83	— 0.53
176	1.5	15.59	14.95	— 0.64
187	0.8	15.82	15.39	— 0.43

No.	Diam.	H.	G.	G.—H.
Area 58.				
198	19.0	9.35	—	—
266	18.0	9.93	—	—
349	16.5	10.33	10.26	— 0.07
153	14.0	10.98	11.06	+ 0.08
401	12.5	11.51	11.59	+ 0.08
177	11.0	12.04	12.00	— 0.04
171	9.0	12.42	12.50	+ 0.08
189	8.0	12.71	12.79	+ 0.08
147	8.0	13.07	12.79	— 0.28
234	5.5	13.75	13.56	— 0.19
236	5.2	13.86	13.66	— 0.20
101	4.5	13.90	13.89	— 0.01
308	4.7	14.10	13.82	— 0.28
335	1.7	14.73	15.00	+ 0.27

No.	Diam.	H.	G.	G.—H.
Area 59.				
91	35.0	7.89	—	—
112	25.0	8.75	—	—
277	20.0	9.34	—	—
198	20.0	9.34	—	—
622	16.0	10.12	9.93	— 0.19
253	14.0	10.33	10.46	+ 0.13
424	15.0	10.74	10.77	+ 0.03
349	13.0	11.06	11.16	+ 0.10
194	12.0	11.12	11.17	+ 0.05
283	10.5	11.63	11.63	0.00
289	10.0	11.69	12.06	+ 0.37
459	10.5	12.10	11.97	— 0.13
518	9.0	12.62	12.41	— 0.21
371	8.5	12.83	12.59	— 0.24
443	8.0	13.06	12.77	— 0.29
526	5.3	13.66	13.78	+ 0.12
452	3.4	14.29	14.52	+ 0.23
377	3.2	14.50	14.60	+ 0.10
445	1.7	15.49	15.23	— 0.26

No.	Diam.	H.	G.	G.—H.
Area 60.				
260	28.0	8.04	—	—
479	21.0	8.72	—	—
341	18.0	9.30	—	—
348	13.5	9.99	10.24	+ 0.25
517	14.8	10.28	10.14	— 0.14
589	11.0	10.68	10.84	+ 0.16
394	13.5	10.43	10.67	+ 0.24
450	10.0	11.10	11.38	+ 0.28
353	10.5	11.66	11.32	— 0.34
275	9.5	12.11	11.75	— 0.36
264	7.5	12.27	12.42	+ 0.15
300	6.0	12.66	12.97	+ 0.31
208	4.7	13.35	13.47	+ 0.12
138	6.2	13.32	12.90	— 0.42
216	3.5	13.84	13.95	+ 0.11
292	2.7	14.12	14.29	+ 0.17

No.	Diam.	H.	G.	G.—H.
Area 61.				
51	19.0	8.66	—	—
233	19.5	9.06	—	—
212	14.5	9.82	10.37	+ 0.55
312	11.0	10.37	10.51	+ 0.14
318	10.5	10.82	10.97	+ 0.15
45	10.5	10.84	10.94	+ 0.10
147	10.5	11.07	10.96	— 0.11
34	8.0	11.40	11.66	+ 0.26
245	8.5	11.63	11.58	— 0.05
248	6.0	12.39	12.42	+ 0.03
344	5.5	12.37	12.63	+ 0.26
416	6.0	12.76	12.42	— 0.34
424	2.8	13.69	13.87	+ 0.18
409	1.7	14.22	14.43	+ 0.21
137	1.7	14.68	14.43	— 0.25

No.	Diam.	H.	G.	G.—H.
Area 62.				
849	36.5	R	7.20	—
361	22.0	8.71	—	—
1305	18.5	9.81	—	—
1043	17.5	10.13	—	—
599	12.5	10.70	10.94	+ 0.24
877	13.0	11.07	11.01	— 0.06
1080	11.0	11.14	11.55	+ 0.41
1114	10.0	11.64	11.88	+ 0.24
1139	10.0	12.06	11.88	— 0.18
598	10.0	12.17	11.88	— 0.29
613	9.0	12.61	12.22	— 0.39
861	8.5	12.82	12.39	— 0.43
596	6.5	13.06	13.12	+ 0.06
609	5.0	13.30	13.73	+ 0.43
629	6.2	13.27	13.24	— 0.03
650	5.6	13.39	13.48	+ 0.09
635	3.3	14.00	14.47	+ 0.47
829	2.2	15.08	14.96	— 0.12
786	0.8	15.30	15.63	+ 0.33

No.	Diam.	H.	G.	G.—H.
Area 63.				
518	18.0	8.90	—	—
226	19.5	9.15	—	—
787	17.0	9.90	—	—
726	15.0	10.00	—	—
761	13.5	10.73	10.69	— 0.04
556	12.5	10.85	10.98	+ 0.13
571	12.0	11.10	11.12	+ 0.02
566	11.5	11.49	11.26	— 0.23
677	9.0	12.23	11.95	— 0.28
678	8.0	12.33	12.24	— 0.09
466	4.5	12.98	13.30	+ 0.32
546	4.5	13.17	13.30	+ 0.13
701	2.2	13.79	14.13	+ 0.34
697	2.0	14.16	14.21	+ 0.05
248	0.7	14.93	14.84	— 0.09
257	0.3	15.42	15.58	+ 0.16

No.	Diam.	H.	G.	G.—H.
Area 64.				
834	30.0	8.12	—	—
936	24.5	9.07	—	—
239	17.5	9.32	—	—
225	16.0	10.22	—	—
1414	12.5	10.92	10.93	+ 0.01
733	12.0	11.30	11.04	— 0.26
826	7.8	11.97	12.20	+ 0.23
710	6.5	12.43	12.58	+ 0.15
677	6.0	13.02	12.74	— 0.28
1184	4.2	13.43	13.37	— 0.06
1294	2.7	13.75	13.97	+ 0.22
1398	2.3	14.40	14.15	— 0.25
903	1.0	14.61	14.80	+ 0.19
926	— 0.3	15.31	15.75	+ 0.44
916	— 0.3	15.59	15.75	+ 0.16

No.	Diam.	H.	G.	G.—H.
Area 65.				
237	17.0	9.04	—	—
247	13.5	10.36	—	—
586	10.0	11.27	11.31	+ 0.04
288	9.0	11.46	11.73	+ 0.27
231	9.5	11.65	11.55	— 0.10
254	6.2	12.40	12.71	+ 0.31
280	4.8	12.84	13.20	+ 0.36
114	5.5	13.25	12.95	— 0.30
240	4.5	13.63	13.30	— 0.33
366	1.8	14.01	14.27	+ 0.26
230	2.3	14.12	14.08	— 0.04
213	1.4	14.53	14.43	— 0.10
389	0.2	14.80	15.00	+ 0.20
428	0.3	14.95	14.94	— 0.01

No.	Diam.	H.	G.	G.—H.
Area 66.				
586	16.0	9.68	—	—
836	15.0	10.25	—	—
898	11.0	11.02	11.08	+ 0.06
874	10.8	11.18	11.27	+ 0.09
610	11.0	11.42	11.29	— 0.13
766	10.0	11.54	11.56	+ 0.02
549	8.5	12.00	12.12	+ 0.12
565	8.0	12.46	12.29	— 0.17
408	7.5	12.98	12.46	— 0.52
820	3.3	13.44	14.00	+ 0.56
777	2.5	13.85	14.35	+ 0.50
849	3.3	13.98	14.00	+ 0.02
796	2.2	14.46	14.49	+ 0.03
787	1.8	14.92	14.68	— 0.24
799	1.0	15.18	15.08	— 0.10

No.	Diam.	H.	G.	G.—H.
Area 67.				
251	35.0	7.78	—	—
330	21.0	8.98	—	—
516	12.0	9.94	—	—
493	14.0	10.13	—	—
407	11.5	10.80	10.67	— 0.13
318	10.0	10.95	10.97	+ 0.02
508	7.5	11.70	11.69	— 0.01
437	5.2	12.16	12.47	+ 0.31
346	6.0	12.26	12.18	— 0.08
338	5.2	12.53	12.47	— 0.06
22	3.0	13.03	13.37	+ 0.34
468	3.0	13.38	13.37	— 0.01
104	2.5	13.91	13.60	— 0.31
114	0.8	14.50	14.44	— 0.06
133	— 0.2	14.82	15.01	+ 0.19
122	— 0.3	14.73	15.20	+ 0.47
146	— 0.3	15.46	15.20	— 0.26

No.	Diam.	H.	G.	G.—H.
Area 68.				
398	33.5	7.16	—	—
197	25.0	8.13	—	—
292	19.5	8.59	—	—
327	16.0	9.18	—	—
218	11.5	10.21	10.30	+ 0.09
186	9.0	11.40	11.15	— 0.25
106	8.0	11.75	11.63	— 0.12
102	6.0	12.38	12.42	+ 0.04
205	5.5	12.82	12.63	— 0.19
308	3.6	13.36	13.45	+ 0.09
424	2.0	14.00	14.20	+ 0.20
382	1.7	14.47	14.36	— 0.11
373	0.8	14.59	14.85	+ 0.26
191	— 0.3	15.04	15.68	+ 0.64
254	0.3	15.28	15.16	— 0.12

No.	Diam.	H.	G.	G.—H.
AREA 69.				
215	25.5	7.66	—	—
200	23.5	7.97	—	—
105	14.5	9.33	9.35	+ 0.02
101	12.0	10.01	10.03	+ 0.02
243	10.2	10.41	10.56	+ 0.15
289	9.0	10.83	10.87	+ 0.04
206	8.5	11.25	11.03	— 0.22
118	7.5	11.77	11.36	— 0.41
207	5.2	12.14	12.25	+ 0.11
204	4.0	12.86	12.77	— 0.09
117	3.3	13.29	13.11	— 0.18
115	2.0	13.62	13.78	+ 0.16
205	1.8	13.86	13.90	+ 0.04
194	1.5	14.04	14.07	+ 0.03
124	1.5	14.43	14.07	— 0.36

No.	Diam.	H.	G.	G.—H.
AREA 70.				
223	35.0	7.63	—	—
251	31.0	7.85	—	—
399	15.0	9.64	—	—
173	11.5	10.75	10.84	+ 0.09
222	10.0	11.54	11.33	— 0.21
254	9.5	12.06	11.50	— 0.56
199	6.5	12.17	12.55	+ 0.38
196	7.0	12.34	12.37	+ 0.03
197	5.4	12.89	12.97	+ 0.08
207	4.0	13.40	13.55	+ 0.15
356	2.5	14.12	14.26	+ 0.14
298	2.2	14.37	14.42	+ 0.05
142	2.5	14.66	14.26	— 0.40
141	1.0	14.80	15.08	+ 0.28
294	1.2	15.03	14.97	— 0.06
330	1.7	15.03	14.69	— 0.34
225	— 0.3	15.58	16.03	+ 0.45

No.	Diam.	H.	G.	G.—H.
AREA 71.				
205	15.0	9.36	—	—
137	11.0	10.71	10.84	+ 0.13
217	11.0	11.27	11.11	— 0.16
93	10.0	11.24	11.42	+ 0.18
151	8.5	11.94	11.93	— 0.01
213	7.0	12.12	12.52	+ 0.40
211	7.2	12.68	12.44	— 0.24
195	6.0	13.10	12.92	— 0.18
164	3.2	13.77	14.12	+ 0.35
102	1.8	14.40	14.64	+ 0.24
149	1.8	14.80	14.64	— 0.16
271	0.7	15.02	15.19	+ 0.17

No.	Diam.	H.	G.	G.— H.
AREA 72.				
130	55.0	6.82	—	—
297	12.5	10.04	—	—
252	14.5	10.50	—	—
95	12.0	10.82	10.98	+ 0.16
304	11.0	11.17	10.98	— 0.19
247	10.8	11.47	11.34	— 0.13
229	9.5	11.82	11.58	— 0.24
255	9.0	12.34	11.97	— 0.37
161	7.2	12.65	12.63	— 0.02
204	6.5	12.93	12.90	— 0.03
202	4.8	13.49	13.57	+ 0.08
203	3.8	13.73	13.99	+ 0.26
147	4.6	13.65	13.65	0.00
213	3.0	14.31	14.33	+ 0.02
286	1.7	14.80	14.95	+ 0.15
171	1.0	15.25	15.33	+ 0.08
16	0.0	15.88	16.36	+ 0.48

No.	Diam.	H.	G.	G.—H.
Area 73.				
138	24.5	7.94	—	—
162	13.0	9.67	—	—
19	11.0	10.82	11.02	+ 0.20
353	8.5	11.68	11.85	+ 0.17
278	10.0	12.04	12.68	+ 0.64
44	7.5	12.27	12.17	— 0.10
202	6.0	12.66	12.68	+ 0.02
210	6.0	12.82	12.68	— 0.14
249	4.0	13.24	13.44	+ 0.20
153	2.8	13.51	13.97	+ 0.46
218	2.7	13.80	14.02	+ 0.22
130	1.5	14.54	14.61	+ 0.07
248	2.2	14.93	14.26	— 0.67
68	1.8	14.93	14.45	— 0.48

No.	Diam.	H.	G.	G.—H.
Area 74.				
211	18.0	8.86	—	—
23	15.5	9.27	—	—
54	16.0	9.89	—	—
180	14.0	10.14	10.30	+ 0.16
86	9.0	11.25	11.36	+ 0.11
236	9.5	11.66	11.56	— 0.10
242	8.0	12.23	11.98	— 0.25
89	6.2	12.43	12.64	+ 0.21
110	4.0	13.50	13.53	+ 0.03
41	3.2	13.80	13.88	+ 0.08
360	4.2	13.80	13.45	— 0.35
386	2.7	14.06	14.11	+ 0.05
401	1.8	14.58	14.54	— 0.04
224	0.8	14.91	15.03	+ 0.12

No.	Diam.	H.	G.	G.—H.
Area 75.				
626	23.0	8.20	—	—
225	21.0	8.74	—	—
294	16.0	9.37	—	—
722	15.0	9.72	—	—
21	13.0	10.72	10.88	+ 0.16
28	13.0	11.23	11.12	— 0.11
276	9.5	11.43	11.78	+ 0.35
370	10.0	11.81	11.62	— 0.19
379	8.0	12.15	12.26	+ 0.11
541	4.8	13.39	13.38	— 0.01
154	6.5	12.65	12.76	+ 0.11
340	6.5	13.08	12.76	— 0.32
352	2.0	13.97	14.54	+ 0.57
363	3.7	14.12	13.81	— 0.31
362	3.2	14.14	14.02	— 0.12
367	0.8	15.22	15.15	— 0.07

No.	Diam.	H.	G.	G.—H.
Area 76.				
292	20.0	8.32	—	—
66	21.0	8.51	—	—
283	18.0	9.09	—	—
215	16.0	9.71	—	—
187	13.2	9.99	10.13	+ 0.14
445	12.0	10.64	10.66	+ 0.02
462	10.0	10.84	10.96	+ 0.12
368	9.0	11.60	11.63	+ 0.03
367	8.5	11.70	11.65	— 0.05
193	7.5	11.89	11.98	+ 0.09
268	7.0	12.18	12.14	— 0.04
194	5.3	12.60	12.71	+ 0.11
280	4.2	12.94	13.12	+ 0.18
210	3.0	13.78	13.61	— 0.17
200	1.8	13.94	14.15	+ 0.21
199	0.5	14.64	14.95	+ 0.31
189	0.7	14.89	14.81	— 0.08

No.	Diam.	H.	G.	G.—H.
Area 77.				
194	19.0	8.57	—	—
183	14.0	9.71	—	—
146	15.0	10.10	—	—
199	10.0	11.08	11.18	+ 0.10
243	7.5	11.94	12.06	+ 0.12
138	8.0	11.94	11.91	— 0.03
203	7.0	12.50	12.22	— 0.28
238	3.2	13.04	13.52	+ 0.48
240	3.2	13.52	13.52	0.00
135	2.8	13.51	13.69	+ 0.18
188	2.5	13.67	13.82	+ 0.15
140	2.7	13.73	13.73	0.00
143	2.3	14.05	13.92	— 0.13
141	2.2	14.28	13.96	— 0.32
254	0.5	14.88	14.94	+ 0.06
202	0.0	15.71	15.31	— 0.40

No.	Diam.	H.	G.	G.—H.
Area 78.				
249	16.5	9.43	—	—
321	14.5	9.89	—	—
141	13.5	10.16	—	—
248	14.5	10.31	—	—
405	10.0	11.07	10.95	— 0.12
190	9.0	11.47	11.58	+ 0.11
384	9.0	11.82	11.81	— 0.01
243	6.2	12.42	12.53	+ 0.11
186	5.5	12.80	12.80	0.00
184	5.5	13.17	12.80	— 0.37
195	3.5	13.65	13.66	+ 0.01
134	2.7	14.02	14.04	+ 0.02
253	2.2	14.36	14.30	— 0.06
122	1.7	14.54	14.56	+ 0.02
88	1.5	14.65	14.68	+ 0.03

No.	Diam.	H.	G.	G.—H.
Area 79.				
78	27.5	8.48	—	—
225	21.0	9.09	—	—
72	16.8	9.73	—	—
293	17.5	9.95	—	—
228	14.5	10.60	10.76	+ 0.16
219	14.5	10.94	10.72	— 0.22
311	12.5	11.21	11.26	+ 0.05
330	10.5	11.86	12.03	+ 0.17
257	10.5	12.26	12.03	— 0.23
271	8.5	12.66	12.72	+ 0.06
160	9.0	13.05	12.54	— 0.51
233	6.5	13.38	13.44	+ 0.06
161	5.7	14.01	13.73	— 0.28
317	3.5	14.21	14.52	+ 0.31

No.	Diam.	H.	G.	G.—H.
Area 80.				
183	36.0	7.44	—	—
35	32.5	7.67	—	—
131	27.8	8.35	—	—
149	23.5	9.11	—	—
278	20.0	9.87	9.96	+ 0.09
27	18.5	10.39	10.39	0.00
85	17.0	10.71	10.77	+ 0.06
245	14.5	11.12	11.12	0.00
125	13.0	11.78	11.81	+ 0.03
119	13.0	11.88	11.81	— 0.07
163	10.0	12.84	12.71	— 0.13
198	8.0	13.42	13.32	— 0.10
204	8.0	13.52	13.32	— 0.20
57	7.5	13.47	13.48	+ 0.01
58	6.0	13.94	13.97	+ 0.03
96	5.0	14.22	14.30	+ 0.08
266	4.7	14.39	14.40	+ 0.01
127	2.1	15.21	15.29	+ 0.08

No.	Diam.	H.	G.	G.—H.
		AREA 81.		
70	45.0	6.68	—	—
72	25.0	7.94	—	—
215	17.5	9.81	—	—
340	12.0	10.55	10.75	+ 0.20
352	11.0	11.08	11.09	+ 0.01
137	11.5	10.71	10.89	+ 0.18
287	10.5	11.43	11.21	— 0.22
157	9.5	11.60	11.65	+ 0.05
226	10.0	11.56	11.47	— 0.09
275	8.5	11.82	12.01	+ 0.19
11	9.5	11.76	11.65	— 0.11
259	8.5	12.35	12.01	— 0.34
45	7.5	12.72	12.37	— 0.35
182	5.2	12.96	13.21	+ 0.25
166	3.7	13.83	13.75	— 0.08
172	2.3	14.15	14.31	+ 0.16
175	1.0	14.60	14.91	+ 0.31
212	— 0.2	15.44	15.64	+ 0.20

No.	Diam.	H.	G.	G.—H.
		AREA 82.		
332	25.0	7.41	—	—
259	15.0	9.66	9.78	+ 0.12
242	16.5	9.66	9.44	— 0.22
254	13.0	10.11	10.22	+ 0.11
366	10.5	10.56	10.72	+ 0.16
398	10.5	11.10	11.10	0.00
37	10.0	11.57	11.28	— 0.29
107	7.0	12.03	12.22	+ 0.19
155	8.0	12.48	11.84	— 0.64
101	5.2	12.63	12.97	+ 0.34
140	5.0	12.99	13.06	+ 0.07
125	3.2	13.64	13.89	+ 0.25
119	3.2	14.04	13.89	— 0.15
113	2.5	14.31	14.22	— 0.09
268	1.7	14.86	14.62	— 0.24

No.	Diam.	H.	G.	G.—H.
		AREA 83.		
289	19.0	9.21	—	—
489	14.5	9.92	—	—
133	15.0	10.22	—	—
233	13.5	10.60	10.66	+ 0.06
302	11.0	10.86	10.84	— 0.02
180	11.8	11.24	11.26	+ 0.02
103	10.2	11.54	11.47	— 0.07
308	9.0	12.26	12.27	+ 0.01
230	8.5	12.68	12.47	— 0.21
219	7.0	13.06	13.06	0.00
213	6.0	13.30	13.45	+ 0.15
336	5.5	13.42	13.64	+ 0.22
340	6.0	13.76	13.45	— 0.31
271	5.5	14.13	13.64	— 0.49
276	5.0	14.34	13.84	— 0.50

No.	Diam.	H.	G.	G.—H.
		AREA 84.		
435	20.0	8.65	—	—
158	15.5	9.34	—	—
150	14.0	9.78	9.90	+ 0.12
358	13.5	10.35	10.29	— 0.06
636	11.0	10.86	10.89	+ 0.03
632	10.0	11.08	11.33	+ 0.25
607	10.0	11.48	11.33	— 0.15
332	10.0	11.54	11.33	— 0.21
542	8.5	11.86	11.85	— 0.01
411	7.0	12.52	12.39	— 0.13
270	5.7	12.44	12.86	+ 0.42
273	6.0	12.74	12.75	+ 0.01
258	3.3	13.44	13.82	+ 0.38
341	4.3	13.65	13.40	— 0.25
348	3.8	13.92	13.61	— 0.31
445	2.8	14.20	14.04	— 0.16

No.	Diam.	H.	G.	G.—H.
		AREA 85.		
392	18.0	8.82	—	—
355	15.0	9.57	—	—
284	15.0	9.75	—	—
434	12.0	10.20	10.26	+ 0.06
527	10.0	10.57	10.65	+ 0.08
410	10.0	11.05	10.77	— 0.28
287	8.5	11.46	11.45	— 0.01
139	8.5	11.43	11.45	+ 0.02
300	7.0	12.09	12.00	— 0.09
368	5.5	12.21	12.57	+ 0.36
270	4.7	12.65	12.89	+ 0.24
278	4.3	12.92	13.06	+ 0.14
303	3.8	13.20	13.27	+ 0.07
621	4.0	13.36	13.18	— 0.18
628	2.0	13.83	14.10	+ 0.27
398	2.3	13.94	13.96	+ 0.02
381	2.3	14.58	13.96	— 0.62
297	1.0	14.94	14.64	— 0.30
191	0.2	15.63	15.11	— 0.52

No.	Diam.	H.	G.	G.—H.
		AREA 86.		
515	12.5	9.69	—	—
638	12.0	10.48	—	—
294	12.0	10.66	—	—
449	12.0	10.70	—	—
341	10.5	11.08	11.27	+ 0.19
455	10.0	11.40	11.16	— 0.24
268	8.5	11.52	11.93	+ 0.41
319	9.0	11.84	11.74	— 0.10
733	8.0	11.87	12.12	+ 0.25
684	7.5	12.31	12.31	0.00
494	7.0	12.49	12.50	+ 0.01
530	6.5	12.70	12.70	0.00
552	6.5	12.68	12.70	+ 0.02
548	4.7	13.26	13.42	+ 0.16
544	4.2	13.38	13.62	+ 0.24

No.	Diam.	H.	G.	G.—H.
		AREA 87.		
547	26.5	9.01	—	—
28	22.0	9.14	—	—
690	17.0	10.25	—	—
741	12.5	10.77	—	—
375	16.0	10.72	—	—
512	11.0	11.24	11.30	+ 0.06
147	11.0	11.72	11.63	— 0.09
506	9.0	12.04	12.14	+ 0.10
330	8.5	12.42	12.31	— 0.11
589	7.0	12.95	12.84	— 0.11
316	6.1	13.02	13.19	+ 0.17
496	5.2	13.40	13.57	+ 0.17
111	6.5	13.66	13.03	— 0.63
632	3 8	14.16	14.19	+ 0.03
723	3.3	14.48	14.43	— 0.05

No.	Diam.	H.	G.	G.—H.
		AREA 88.		
569	45.0	6.58	—	—
536	20 0	8.16	—	—
1141	19.5	8.89	—	—
318	16.0	9.32	—	—
677	11.5	10.31	10.47	+ 0.16
923	11.5	10.49	10.49	0.00
513	10.0	11.03	11.01	— 0.02
490	9.0	11.73	11.48	— 0.25
427	8.5	11.82	11.69	— 0.13
752	7.0	12.57	12.34	— 0.23
1039	5.5	12.78	13.01	+ 0.23
1052	5.7	13.08	12.92	— 0.16
647	3.8	13.82	13.78	— 0.04
651	3.0	14.08	14.14	+ 0.06
1081	1.8	14.27	14.70	+ 0.43
865	2.5	14.24	14.37	+ 0.13
496	2.0	14.74	14.60	— 0.14
958	1.0	15.42	15.10	— 0.32

No.	Diam.	H.	G.	G.—H.
Area 89.				
790	29.0	8.22	—	—
452	18.0	9.36	—	—
959	13.5	10.40	10.56	+ 0.16
783	13.5	10.75	10.59	— 0.16
785	11.0	11.17	11.14	— 0.03
1036	7.0	12.27	12.63	+ 0.36
644	5.2	12.83	13.30	+ 0.47
826	6.5	13.55	12.81	— 0.74
969	4.5	13.62	13.58	— 0.04
761	2.7	14.21	14.36	+ 0.15
552	2.3	14.32	14.55	+ 0.23
556	1.8	14.90	14.79	— 0.11
547	1.8	15.02	14.79	— 0.23
579	1.2	15.09	15.10	+ 0.01
958	0.5	15.76	15.47	— 0.29

No.	Diam.	H.	G.	G.—H.
Area 90.				
129	22.3	8.43	—	—
336	20.0	8.15	—	—
397	20.0	9.12	—	—
289	17.5	9.71	—	—
367	12.0	10.52	10.62	+ 0.10
596	8.0	11.62	11.85	+ 0.23
428	8.0	11.77	11.85	+ 0.08
543	7.0	12.08	12.19	+ 0.11
214	7.0	12.25	12.19	— 0.06
494	6.0	12.94	12.57	— 0.37
211	4.0	13.30	13.44	+ 0.14
614	3.5	13.55	13.68	+ 0.13
619	2.5	14.01	14.18	+ 0.17
469	2.0	14.57	14.45	— 0.12
473	1.5	15.28	14.74	— 0.54

No.	Diam.	H.	G.	G.—H.
Area 91.				
687	21.0	8.56	—	—
549	18.0	9.60	—	—
415	14.0	10.08	10.41	+ 0.33
371	13.5	10.73	10.60	— 0.13
383	13.0	11.08	10.98	— 0.10
905	9.5	11.56	11.83	+ 0.27
832	9.0	12.28	12.06	— 0.22
1115	7.0	13.06	12.83	— 0.23
1148	4.8	13.59	13.75	+ 0.16
794	4.0	13.92	14.12	+ 0.20
713	3.3	14.02	14.48	+ 0.46
566	3.5	14.26	14.37	+ 0.11
698	2.3	14.89	15.03	+ 0.14
822	2.7	15.42	14.80	— 0.62
670	2.0	15.50	15.20	— 0.30
541	1.5	15.81	15.51	— 0.30
553	1.0	16.17	15.84	— 0.33

No.	Diam.	H.	G.	G.—H.
Area 92.				
590	28.0	8.06	—	—
148	23.5	8.40	—	—
336	22.0	8.74	—	—
484	19.0	9.92	—	—
404	16.5	10.66	10.39	— 0.27
546	15.0	11.01	11.03	+ 0.02
480	12.5	11.45	11.56	+ 0.11
508	11.5	11.62	11.69	+ 0.07
276	10.5	12.05	12.24	+ 0.19
335	9.5	12.63	12.63	0.00
235	9.0	12.89	12.83	— 0.06
113	9.0	13.10	12.83	— 0.27
170	8.0	13.56	13.23	— 0.33
560	3.3	15.05	15.11	+ 0.06
414	2.5	15.72	15.43	— 0.29

No.	Diam.	H.	G.	G.—H.
		Area 93.		
554	24.0	8.48	—	—
326	16.0	9.55	—	—
433	13.5	10.20	10.32	+ 0.12
526	13.0	10.56	10.81	+ 0.25
317	11.0	11.34	11.20	— 0.14
312	9.5	11.90	11.88	— 0.02
407	8.5	11.94	12.23	+ 0.29
503	8.8	12.62	12.13	— 0.49
429	8.5	12.63	12.18	— 0.45
349	8.0	13.00	12.69	— 0.31
169	6.5	13.29	13.40	+ 0.11
338	6.2	13.70	13 55	— 0.15
155	5.5	13.78	13.88	+ 0.10
248	4.8	14.56	14.21	— 0.35
271	4.2	14.86	14.50	— 0.36

No.	Diam.	H.	G.	G.—H.
		Area 94.		
32	23.0	7.18	—	—
293	24.0	7.58	—	—
308	20.0	8.64	—	—
305	15.5	10.02	9.89	— 0.13
228	12.0	10.52	10.83	+ 0.31
236	11.0	11.24	11.28	+ 0.04
272	10.0	11.84	11.72	— 0.12
251	9.0	11.90	11.97	+ 0.07
163	8.0	12.43	12.47	+ 0.04
188	9.0	12.19	12.28	+ 0.09
184	7.5	12.62	12.66	+ 0.04
171	8.5	12.90	12.29	— 0.61
174	5.5	13.34	13.48	+ 0.14
173	3.8	13.86	14.23	+ 0.37
91	4.8	13.82	13.78	— 0.04
450	2.7	15.32	14.76	— 0.56

No.	Diam.	H.	G.	G.—H.
		Area 95.		
134	23.0	8.71	—	—
206	20.5	8.95	—	—
96	18.0	9.57	—	—
43	13.5	10.64	10.78	+ 0.14
28	12.0	11.14	11.00	— 0.14
236	10.0	11.54	11.64	+ 0.10
149	10 0	11.83	11.85	+ 0.02
74	9.5	12.06	12.00	— 0.06
73	8.5	12.52	12.42	— 0.10
117	7.0	13.19	13.06	— 0.13
Outside area	6.6	13.58	12.89	— 0.69
	4.2	14.13	14.29	+ 0.16
	3.7	15.05	14.52	— 0.53
	2.0	15.01	15.32	+ 0.31

No.	Diam.	H.	G.	G.—H.
		Area 96.		
406	19.0	9.26	—	—
382	18.0	9.33	—	—
180	15.0	9.68	9.92	+ 0.24
615	14.5	10.06	10.31	+ 0.25
36	14.2	10.42	10.30	— 0.12
192	13.5	10.84	10.75	— 0.09
219	10.0	11.65	11.57	— 0.08
604	8.5	12.26	12.13	— 0.13
244	7.5	12.57	12.59	+ 0.02
560	6.0	13.06	13.14	+ 0.08
537	6.0	13.19	13.14	— 0.05
368	5.0	13.62	13.52	— 0.10
538	3.7	13.78	14.08	+ 0.30
410	2.2	14.66	14.80	+ 0.14
626	2.6	14.69	14.60	— 0 09

No.	Diam.	H.	G.	G.—H.
Area 97.				
257	35.0	6.64	—	—
230	18.5	9.55	—	—
351	18.0	9.66	—	—
368	12.0	10.58	10.98	+ 0.40
288	11.5	11.04	11.22	+ 0.18
192	11.5	11.38	11.12	— 0.26
284	10.0	11.69	11.46	— 0.23
319	9.0	12.04	11.96	— 0.08
19	9.5	12.42	11.96	— 0.46
294	7.5	13.00	12.74	— 0.26
290	6.5	13.32	13.15	— 0.17
56	5.7	13.78	13.47	— 0.31
264	3.2	14.16	14.46	+ 0.30
137	2.5	14.44	14.75	+ 0.31
236	1.7	15.00	15.10	+ 0.10

No.	Diam.	H.	G.	G.—H.
Area 98.				
667	28.0	8.20	—	—
1346	20.0	9.49	—	—
1192	16.0	9.84	9.89	+ 0.05
334	17.0	10.13	10.09	— 0.04
978	13.5	10.70	10.99	+ 0.29
600	14.0	11.40	11.07	— 0.33
724	10.5	11.78	11.86	+ 0.08
1102	10.0	12.11	12.03	— 0.08
1029	8.5	12.47	12.55	+ 0.08
611	8.0	13.07	12.73	— 0.34
971	5.8	13.50	13.56	+ 0.06
710	5.0	13.81	13.87	+ 0.06
727	5.0	14.13	13.87	— 0.26
657	3.7	14.53	14.41	— 0.12
652	2.8	14.80	14.80	0.00

No.	Diam.	H.	G.	G.—H.
Area 99.				
172	21.5	8.59	—	—
296	20.0	9.28	—	—
418	19.0	9.26	9.22	— 0.04
408	17.5	9.71	9.72	+ 0.01
358	18.0	9.87	9.79	— 0.08
266	12.5	11.07	11.11	+ 0.04
367	11.5	11.45	11.70	+ 0.25
155	10.0	12.01	11.92	— 0.09
413	8.0	12.63	12.88	+ 0.25
193	8.5	12.89	12.66	— 0.23
312	7.0	13.42	13.28	— 0.14
313	5.5	13.73	13.73	0.00
188	4.2	14.33	14.05	— 0.28
318	— 0.2	14.52	14.86	+ 0.34
279	0.2	14.80	14.68	— 0.12

No.	Diam.	H.	G.	G.—H.
Area 100.				
606	28.0	8.34	—	—
297	20.0	9.06	—	—
322	22.5	8.91	—	—
289	17.0	9.43	9.52	+ 0.09
162	15.0	9.92	10.11	+ 0.19
39	15.8	10.44	10.37	— 0.07
51	14.5	10.82	10.63	— 0.19
401	11.0	11.35	11.39	+ 0.04
280	11.0	11.78	11.64	— 0.14
394	10.2	12.01	11.74	— 0.27
272	9.5	12.16	12.06	— 0.10
308	10.0	12.16	11.91	— 0.25
404	8.5	12.64	12.38	— 0.26
407	6.0	13.06	13.18	+ 0.12
295	4.6	13.62	13.64	+ 0.02
170	2.5	14.18	14.43	+ 0.25
169	4.0	13.68	13.84	+ 0.16
314	3.0	14.75	14.22	— 0.53

No.	Diam.	H.	G.	G.—H.
AREA 101.				
311	21.0	8.08	—	—
484	16.0	8.86	9.04	+ 0.18
333	18.5	8.88	—	—
363	16.5	9.65	9.43	— 0.22
346	13.5	10.01	10.19	+ 0.18
324	13.5	10.16	10.31	+ 0.15
361	12.0	11.03	11.03	0.00
422	10.0	11.86	11.94	+ 0.08
181	8.5	12.20	12.63	+ 0.43
200	8.0	13.05	12.86	— 0.19
196	7.0	13.49	13.30	— 0.19
270	6.5	13.82	13.51	— 0.31
328	5.0	14.06	14.12	+ 0.06
185	4.0	14.43	14.46	+ 0.03
288	1.0	14.81	15.34	+ 0.53

No.	Diam.	H.	G.	G.—H.
AREA 102.				
1085	40.0	7.09	—	—
381	35.5	8.01	—	—
625	23.5	9.05	—	—
472	19.0	9.31	9.06	— 0.25
466	16.0	9.63	10.17	+ 0.54
752	12.5	10.32	10.57	+ 0.25
620	12.0	10.55	10.96	+ 0.41
354	12.5	11.31	11.11	— 0.20
495	10.0	12.42	12.24	— 0.18
502	9.0	12.64	12.66	+ 0.02
499	8.5	12.96	12.89	— 0.07
788	7.0	13.20	13.42	+ 0.22
673	7.4	13.52	13.22	— 0.30
761	5.8	14.18	14.03	— 0.15
480	4.5	14.31	14.60	+ 0.29

No.	Diam.	H.	G.	G.—H.
AREA 103.				
483	31.0	8.41	—	—
135	26.0	9.10	—	—
302	20.0	9.93	9.65	— 0.28
692	14.5	10.45	10.95	+ 0.50
477	13.0	10.81	10.86	+ 0.05
603	13.5	11.51	11.52	+ 0.01
487	12.8	12.00	11.79	— 0.21
583	10.5	12.52	12.58	+ 0.06
259	10.0	12.87	12.75	— 0.12
280	10.0	13.46	12.98	— 0.48
265	8.5	13.60	13.67	+ 0.07
285	6.5	14.27	14.39	+ 0.12
276	7.5	14.86	14.05	— 0.81
495	5.2	15.02	14.78	— 0.24

No.	Diam.	H.	G.	G.—H.
AREA 104.				
547	41.0	8.29	—	—
461	24.5	9.78	—	—
306	17.0	10.28	—	—
669	15.5	10.95	11.15	+ 0.20
368	14.5	11.25	11.28	+ 0.03
216	14.0	11.10	11.27	+ 0.17
246	15.0	11.49	11.26	— 0.23
174	13.5	11.91	11.87	— 0.04
80	12.8	12.12	12.20	+ 0.08
383	12.5	12.56	12.34	— 0.22
555	9.5	13.41	13.38	— 0.03
160	10.0	13.54	13.31	— 0.23
799	7.5	13.96	14.05	+ 0.09
550	9.5	14.08	13.38	— 0.70
563	9.0	14.42	13.56	— 0.86

No.	Diam.	H.	G.	G.—H.
Area 105.				
214	55.0	7.34	—	—
663	40.0	8.78	—	—
257	35.0	9.34	—	—
448	41.0	9.26	—	—
405	22.5	9.55	—	—
456	24.5	10.42	—	—
411	18.0	11.18	11.21	+ 0.03
788	18.0	11.43	11.38	— 0.05
792	16.5	11.69	11.72	+ 0.03
577	16.5	11.87	11.69	— 0.18
480	12.0	12.64	12.74	+ 0.10
244	12.0	12.77	12.89	+ 0.12
241	11.0	13.18	13.08	— 0.10
334	6.5	14.16	14.42	+ 0.26
145	7.0	14.69	14.29	— 0.40
146	4.0	14.80	15.11	+ 0.31

No.	Diam.	H.	G.	G.—H.
Area 106.				
1250	30.0	8.82	—	—
834	22.5	9.47	9.67	+ 0.20
411	29.5	9.48	—	—
575	17.2	10.27	10.56	+ 0.29
1133	20.0	10.35	10.19	— 0.16
1310	16.0	10.88	10.94	+ 0.06
1124	16.5	11.48	11.22	— 0.26
316	12.0	11.60	11.85	+ 0.25
319	14.0	11.77	11.46	— 0.31
298	11.0	12.38	12.61	+ 0.23
670	11.0	12.23	12.61	+ 0.38
320	10.5	12.63	12.80	+ 0.17
977	9.0	12.85	13.34	+ 0.49
874	10.0	12.88	12.98	+ 0.10
749	10.0	12.74	12.98	+ 0.24
1103	8.0	13.44	13.69	+ 0.25
1102	10.0	13.44	12.98	— 0.46
952	10.0	13.79	12.98	— 0.81
614	8.0	14.20	13.69	— 0.51
915	5.5	14.59	14.49	— 0.10
1071	3.7	15.01	15.04	+ 0.03
905	2.5	15.30	15.38	+ 0.08

No.	Diam.	H.	G.	G.—H.
Area 107.				
298	33.0	6.94	—	—
595	22.0	7.74	—	—
684	14.5	8.67	8.55	— 0.12
544	13.0	9.21	9.12	— 0.09
170	13.0	9.48	9.80	+ 0.32
724	12.0	10.09	10.11	+ 0.02
998	11.0	10.53	10.64	+ 0.11
847	11.0	10.77	10.81	+ 0.04
609	10.0	11.05	11.34	+ 0.29
641	10.0	11.12	11.16	+ 0.04
277	10.5	11.45	11.24	— 0.21
365	9.2	12.18	11.91	— 0.27
464	7.5	12.40	12.52	+ 0.12
459	7.0	12.68	12.83	+ 0.15
456	5.3	13.43	13.54	+ 0.11
212	5.0	13.79	13.66	— 0.13
415	3.3	14.18	14.36	+ 0.18
567	2.3	14.42	14.79	+ 0.37
732	2.8	14.81	14.58	— 0.23
371	1.8	15.08	15.00	— 0.08

No.	Diam.	H.	G.	G.—H.
Area 108.				
702	34.5	8.40	—	—
1911	34.5	8.54	—	—
827	25.5	9.07	—	—
275	24.0	9.06	—	—
1491	20.8	9.58	9.41	— 0.17
170	18.0	10.01	10.22	+ 0.21
551	14.0	10.49	10.52	+ 0.03
646	13.0	10.79	11.03	+ 0.24
82	13.5	11.12	11.10	— 0.02
38	12.0	11.19	11.62	+ 0.43
1292	13.0	11.85	11.42	— 0.43
1659	11.5	12.20	12.17	— 0.03
1679	11.0	12.63	12.48	— 0.15
1569	10.0	13.03	13.22	+ 0.19
1896	10.5	13.28	13.00	— 0.28
2011	8.0	14.21	14.31	+ 0.10
1936	8.5	14.36	14.10	— 0.26

No.	Diam.	H.	G.	G.—H.
Area 109.				
747	45.5	8.31	—	—
1082	28.0	9.30	—	—
231	18.0	10.41	10.35	— 0.06
537	20.0	10.72	10.73	+ 0.01
197	17.0	11.12	11.19	+ 0.07
255	13.0	11.70	11.74	+ 0.04
396	17.0	11.90	11.64	— 0.26
381	11.5	12.01	12.18	+ 0.17
102	11.5	12.36	12.61	+ 0.25
1092	11.5	13.04	12.79	— 0.25
807	10.0	13.38	13.15	— 0.23
419	8.0	13.68	13.81	+ 0.13
466	8.0	13.94	13.81	— 0.13
695	7.0	14.58	14.19	— 0.39
1010	3.0	15.27	15.64	+ 0.37

No.	Diam.	H.	G.	G.—H.
Area 110.				
340	22.8	9.92	—	—
353	20.0	10.02	—	—
268	16.0	10.82	11.13	+ 0.31
248	18.5	11.06	11.00	— 0.06
289	14.0	11.48	11.71	+ 0.23
290	14.0	12.18	11.88	— 0.30
429	13.0	12.58	12.52	— 0.06
359	10.5	13.15	13.07	— 0.08
145	11.0	13.43	13.22	— 0.21
243	10.0	13.70	13.22	— 0.48
339	6.5	14.07	14.27	+ 0.20
428	7.5	14.30	13.97	— 0.33
239	6.0	14.42	14.42	0.00
269	5.5	14.53	14.56	+ 0.03
297	5.5	15.04	14 56	— 0.48
262	4.0	15.17	15.00	— 0.17

No.	Diam.	H.	G.	G.—H.
Area 111.				
1496	45.0	6.97	—	—
773	33.5	8.65	—	—
2864	19.5	9.52	—	—
1109	16.0	10.03	10.04	+ 0.01
1342	14.5	10.40	10.45	+ 0.05
2205	12.5	10.80	11.08	+ 0 28
913	15.0	10.67	10.57	— 0.10
960	11.5	11.41	11.39	— 0.02
1075	11.0	11.83	11.66	— 0.17
1470	10.8	12.28	11.94	— 0.34
1432	7.5	13.17	13.50	+ 0.33
2629	8.0	13.42	13.29	— 0.13
1953	8.0	13.33	13.29	— 0.04
1984	8.5	13.50	13.06	— 0.44
2070	5.5	13.92	14.29	+ 0.37
2086	5.5	14.66	14.29	— 0.37
2106	3.2	15.12	15.12	0.00

No.	Diam.	H.	G.	G.—H.
Area 112.				
1370	26.5	8.46	—	—
1242	22.5	9.17	—	—
2296	18.0	10.27	10.11	— 0.16
275	13.5	10.57	10.93	+ 0.36
—	—	11.12	Outside area	
—	—	11.35	„	„
712	14.0	11.59	11.55	— 0.04
1152	12.5	11.88	11.81	— 0.07
1114	12.5	12.31	12.12	— 0.19
1619	10.5	12.61	12.66	+ 0.05
1641	10.0	13.13	12.88	— 0.25
1776	9.5	13.07	13.07	0.00
1748	8.0	13.66	13.66	0.00
1689	6.3	14.39	14.32	— 0.07
2280	4.7	14 58	14.95	+ 0.37
1197	4.0	15.39	15.23	— 0.16
814	4.3	15.52	15.11	— 0.41

No.	Diam.	H.	G.	G.—H.
AREA 113.				
274	15.0	8.76	—	—
192	13.5	9.90	9.87	— 0.03
269	15.7	10.22	—	—
408	11.5	11.06	11.09	+ 0.03
339	10.0	12.22	12.04	— 0.18
233	9.5	12.40	12.23	— 0.17
382	7.0	13.28	13.28	0.00
250	7.5	13.22	13.08	— 0.14
364	5.1	13.60	13.99	+ 0.39
373	4.0	13.80	14.41	+ 0.61
387	4.5	14.67	14.22	— 0.45
316	3.4	14.72	14.64	— 0.08
294	3.0	14.74	14.79	+ 0.05
299	2.3	15.04	15.06	+ 0.02
298	2.2	15.26	15.10	— 0.16

No.	Diam.	H.	G.	G.—H.
AREA 114.				
773	43.5	6.74	—	—
172	34.5	7.00	—	—
720	22.5	8.36	—	—
473	19.5	9.30	—	—
353	17.5	10.21	10.13	— 0.08
236	16.0	10.63	10.67	+ 0.04
151	16.0	10.93	10.87	— 0.06
501	13.0	11.24	11.39	+ 0.15
312	11.5	11.89	11.97	+ 0.08
387	12.5	12.05	12.00	— 0.05
471	10.5	12.62	12.56	— 0.06
745	8.5	13.43	13.20	— 0.23
736	5.5	13.86	14.09	+ 0.23
737	5.2	14.38	14.17	— 0.21
440	3.3	14.64	14.72	+ 0.08
519	2.7	14.55	14.90	+ 0.35
530	2.7	15.06	14.90	— 0.16

No.	Diam.	H.	G.	G.—H.
AREA 115.				
224	26.0	8.22	—	—
349	19.5	9.39	9.37	— 0.02
73	17.5	9.95	10.07	+ 0.12
403	18.0	10.10	10.06	— 0.04
168	18.0	10.28	10.24	— 0.04
230	14.0	10.71	10.79	+ 0.08
301	14.0	11.09	11.26	+ 0.17
104	14.5	11.33	11.14	— 0.19
93	12.0	11.90	11.94	+ 0.04
116	11.0	12.50	12.40	— 0.10
206	10.0	12.78	12.69	— 0.09
45	8.5	13.06	13.20	+ 0.14
40	6.5	14.02	13.84	— 0.18
48	4.3	14.28	14.52	+ 0.24
42	3.0	14.75	14.92	+ 0.17

REMARKS.

Area.	No.	
10.	130.	Magnitudes, 13.98, 14.57. Perhaps variable.
13.	84.	Magnitudes, 14.02, 14.21. Independent estimate on a third plate, 14.1.
17.	259.	Magnitudes, 15.08, 14.44, 15 07. Perhaps variable. Brightness on the second plate confirmed by reexamination.
31.	50.	Magnitudes, 11,86, 11,73. Independent estimates on six plates taken with the 8-inch Draper Telescope, 11.7, 11.9, 11.9, 11.8, 11 9, 11.8. According to Catalogue photographique de Helsingfors the star is 0.1 fainter than No. 212. Therefore 11.5.
31.	82.	Magnitudes, 14.03, 13,56. Image at limit of visibility on the earlier plate, and difficult to measure, but apparently of normal brightness Independent estimates on four plates taken with the 8-inch Draper Telescope, 13.6, 13.5, 13.5, 13,6.
36.	187.	Magnitudes, 13.69, 13.51, 13.68. Gron. magn. should be 13.65, see Errata.
43.	284.	The magnitude depends on only one plate, but two other plates show this star, which is in each case much fainter than stars 100 and 167.
45.	113.	This is a variable of the eclipsing type, discovered through the discordance of the plates on which the sequence was measured. Range from 10.5 to 11.8. See H. C. 179, Table II, 012629.
49.	652.	Magnitudes, 13.96, 13.91.
62.	849.	The Durchmusterung magnitude, 7.20, represents the combined light of two stars for which the magnitudes derived from series plates are 7.76 and 8 19, respectively.
89.	826.	Magnitudes, 13.54, 13,55. On five additional plates, this star always appears fainter than No. 644.
103.	276.	Magnitudes, 14.74, 14.54, 15.24, 14.64, 15.03. The discordance appears to be due to accidental errors, caused by the extreme faintness of the images. Inspection of the plates shows no real variation. The star always appears fainter than No. 285.
104.	550.	Magnitudes, 14.11, 14.08, 13.99, 14.12.
104.	563.	Magnitudes, 14.33, 14.50.
106.	952.	Magnitude depends on one image, near limit of visibility.

INTRODUCTION

BY J. C. KAPTEYN.

1. *General remarks.*

Already in the course of the preliminary discussions on the Plan of Selected Areas, Professor Pickering declared himself willing to undertake the Durchmusterung plates, the photographic and visual standards for magnitude and the classification of spectra . . . . . for both hemispheres (see: *Plan of Selected Areas* p. 68), whereas the Groningen Laboratory charged itself with the measurement and reduction of the Durchmusterung plates.

The present work contains the results of these measurements. It will be complete in four volumes; the first of which contains for the Systematic Plan all the areas between declination 0° and + 90°; the two following volumes will contain the southern regions of this same plan (— 15° to — 90°); the fourth will embrace the regions of the Special Plan. Both the plates and the measures of all the regions have been completed, with the exception of the measures for a few plates of the Special Plan. It may be expected, therefore, that the publication of the whole work will be finished in the near future.

For an exposition of the aim, and the scope of the undertaking of the Selected Areas in general and of the Durchmusterung plates in particular, I wish to refer to the booklet „Plan of Selected Areas" published by the astronomical laboratory at Groningen in 1906. Something, however, must be said about the limitation of the areas both in magnitude and in extent.

In magnitude the limit was set by the power of the photographic telescope and the necessity of not extending the time of exposure too long. For the northern hemisphere the Metcalf telescope (aperture 16 inches, focal length 221 c.M.) was mainly used and a time of exposure was given of 60 minutes. The limiting magnitude reached in these circumstances proved to be on an average about 16.0 international scale.

Some of the plates on the equator have been taken at Arequipa in the normal conditions for the whole of the southern areas, with the Bruce telescope (aperture 24 inches, focal length 345 c.M.) with a time of exposure of 120 minutes. The limit of magnitude thus reached will, on the average, fall little short of magnitude 17.0.

The disadvantage of the northern hemisphere in respect to limiting magnitude will be more than compensated by a Durchmusterung for the central part of the areas (for galactic latitude 0 to ± 40°, 15′ × 15′; for ± 40° to ± 90°, 20′ × 20′), made at Mount Wilson with the 60 inch reflector, time of exposure 60 minutes, which for these central parts will, on the average, go down to appreciably below magnitude 18.0.

As to the limitation of the extent of the areas.

In „Selected Areas" p. 10 an extent of 75′ × 75′ was proposed for each area. In order not to prolong too excessively the labour of measuring and reduction, this extent had to be taken smaller in the rich parts of the sky. The rule was therefore laid down to make it dependent on the galactic latitude in the following way:

gal. lat.	extent of area
— 20° to + 20°	40′ × 40′
± 20 „ ± 40	60 × 60
± 40 „ ± 90	80 × 80

In the northern hemisphere the rule has been strictly adhered to except for area No. 110, where, the plate being relatively poor, 60′ × 60′ have been observed instead of 40′ × 40′. In the southern hemisphere the exceptions are somewhat more frequent.

The area really measured is thus seen to be on the average considerably below what was proposed in „Selected Areas". Meanwhile, owing to the fact that the lower limit of magnitude is so much fainter than was expected in that paper, the total number of stars obtained exceeds the expected number of 200 000 stars considerably. Indeed this number is in the two hemispheres

$\delta = +90°$ to 0°	area =	127.9	sq. degrees, number	84 002
— 15 „ — 90	„	97.2	„ „ „ (roughly)	167 000
total	„	225.1	„ „ „	251 000

The distribution over the several galactic latitudes is of course much better than it would have been had the areas all been equal in extent.

The total surface of the areas Nos. 1—115 in the present volume is 127.89 square degrees.

The average number of stars per square degree thus is 657.

For the southern hemisphere it will be, roughly, 1720.

For several purposes it may be well to add the estimated number of *bright* stars available on our plates.

TABLE I. ESTIMATED NUMBER OF STARS ON PLATES OF BOTH HEMISPHERES.

Photogr. mag. Intern. scale	numb.	Visual mag. Harv. scale	numb.
0 to 9.0	365	0 to 9 0	623
9.0 „ 10.0	665	9.0 „ 10.0	1160
10.0 „ 11.0	1700	10.0 „ 11.0	3120

We may perhaps be allowed to make a general remark in connection with these numbers.

In regard to most elements obtainable for the stars as: magnitude, proper motion, spectrum, radial velocity etc., the stars brighter than 9.0 (visually) have been extensively cared for or will probably be so in a near future. For the stars fainter than 11.0 the present areas promise to furnish sufficient data for all the elements obtainable for stars so faint. There remain the stars 9.0 to 11.0 not so well provided for. Especially for those elements which, as for instance the radial velocities, cannot as yet be satisfactorily obtained for stars below 10 and for the spectra which might not well be obtainable below 11.0, areas of greater extent round the same centres, will thus be required. (In „Selected Areas" p. 50 a surface of 4° × 4° was suggested for such cases.) Another Durchmusterung for such more extensive areas exclusively of the brighter stars seems a desideratum.

Naturally recourse might be had to such works as the Bonn-, Cordoba- and Cape Durchmusterungs. But it would certainly greatly contribute to the convenience of astronomers and to the homogeneity of the data to be obtained, if such larger areas for the brighter stars were published exactly in the form of the present work. For those regions for which the catalogue of the „Carte du Ciel" has already appeared this would be an easy work The x and y can be obtained, referred to the same centre and equinox as in the present catalogue, by simple linear formulae and the magnitudes might be easily reduced to the same system, at least if a few additional standards for brighter stars were obtained.

As a first contribution to such a Durchmusterung we will give below the formulae for the plates of the „Carte du Ciel", nearest our centres, in the zones of declination + 30° and + 15°. Perhaps the plates used for the present work may be of some service for the proper motions over so much larger areas. Their size has been purposely taken very considerable *viz.*:

	in α	in δ
for the Metcalf instrument	over 5°,	6.5 degrees
„ „ Bruce „	over 7,	almost 6 „

But to come back to the present work. The usefulness of a Durchmusterung depends largely on its freedom from errors and the convenience of its use. It is in consideration of the latter that we arranged matters in such a way that approximate declinations can be read from the catalogue as easily as the *y* and that a separate column has been given showing approximate right ascensions. The *x* and *y* themselves have been given in minutes of arc.

In order to insure great freedom from error, the plates have all been measured in duplicate. The two measures of any one zone, as soon as obtained, were compared at once. Any discrepancy was thus at once found and looked up on the plate.

To my great regret the reductions have not proved so simple ad satisfactory as was the case with the reductions of the Cape Photographic Durchmusterung. As a consequence reduction errors must have more frequently occurred in the present work. The two main causes of this state of affairs are:

1st. The intervals between the division lines on the metallic scale for the *x*, instead of corresponding exactly to 1′ on the plate (as they were intended to do) proved really to be

Metcalf plates before repolishing: interval = 0′.99665
„ „ after „ „ = 1.04650
Bruce „ „ = 0.99445

A correction therefore, varying with *x*, has been necessary in order to express the *x* in minutes of arc. It might have been avoided, at least before the polishing of the Metcalf lens, by a more careful division of the scales.

2nd. Though our measuring machine is built in such a way that the filmside of all the plates consecutively put in, ought to be at the same distance from the measuring microscope, it turned out that the scale value of the ocular scale was different for different plates. The defect is considerably greater in the case of the Bruce- than in that of the Metcalf plates and it has been particularly troublesome in the reduction of a great part of the southern hemisphere. When the defect was discovered it was at once traced to very perceptible curvature of the plates, which is such that the central part of one plate (the part to be measured) is very sensibly nearer the measuring microscope than the central part of another plate. For small plates the defect would have been negligible. With plates of the great size of the Metcalf- (8 × 10 inches) and in a still much higher degree of the Bruce plates (14 × 17 inches) it becomes very noticeable. —

After the discovery further trouble with the Bruce plates was generally avoided by taking the precaution to regulate the distance of the microscope for every individual plate in such a way that an interval of the ocular scale

> corresponded exactly to 10″ on the plate. With the Metcalf plates, for which, on account of their smaller size, the danger of perceptible curvature seemed so much smaller, the scale rectification was still only made from time to time. This is much to be regretted. For, by some not fully understood cause, it appeared afterwards that, for great part of the plates, the scale value has still in many cases been seriously in error. Corrections had therefore to be applied in the reductions of the majority of the plates.

These corrections entail of course a greater liability to mistake. Meanwhile no trouble was spared to ensure correctness in the final values. The MS for the printer was not only compared with the reduced results of the observing books, but also with the second measure, applying only an average correction for each page. Any *important* error in the reduction must have been discovered thereby. The first proofsheet was read with the MS, the second with the reduced results in the observing books. Any copying error in the MS must thereby have been found. In correcting the proofsheets there was moreover carried through a second computation of the right-ascensions. The reductions too of the diameters to magnitude have been made in duplicate.

Although I hardly dare to hope that by all these precautions the same freedom of error will have been obtained as in the Cape Photographic Durchmusterung, I think we may still expect that the errors will be very few indeed.

Fortunately we have at least one proof that it is really so. Professor PARKHURST has compared the regions at $\delta = +45°$ with plates taken at the Yerkes Observatory and finds no case of serious disagreement in the position of a total of 1558 stars.

Within the limits of the measured areas, we tried to observe every star visible on the plates. As the two measures were made quite independently of each other and as every star, except those estimated —0.3, missing in one of the two measures, was revised and, when found, retained in the catalogue, I think we may well assume that the existing stars will have been observed practically completely, at least down to those 0.2 or 0.3 magnitudes brighter than the faintest stars on the plate.

On the other hand some spurious objects, not stars, may easily have entered the catalogue. In this respect the same security could not be expected as for the C. P. D. where the images of the same star on *two* equally long exposed plates were always visible in the observing microscope. By a comparison of the stars having diameter 0 or higher in the ledgers, with the corresponding images on the Mount Wilson plates, it appears that the number of objects in the Catalogue missing on the overlapping Mnt Wilson areas is about *one in* 130 *stars*. These, however, are almost all very faint objects. Besides *nearly two thirds* of them were already marked with a (in many cases double) sign of interrogation. Another part may be variable.

In the comparison with Mount Wilson are necessarily *not* included false objects, in reality faint companions (short exposures or prismatic companions) of stars so near the border of the measured areas that the main images fall outside, and have not been measured at all, while the companions fall inside. These could not as a rule be differentiated from true stars.

For the *nebulae* I fear that our measurement must be far from complete. Indeed it is not easy to make sure of the reality of any faint nebula in cases like the present, where there is but a single plate to rely on. We contemplate a complete Durchmusterung for nebulae on that part of the plates which is well covered also by the Mount Wilson series of plates, but it may be somewhat long before we may find sufficient leisure for the work. The observed nebulae have all been looked up in DREYER's Catalogue, where most of them were found. Those that were not found in DREYER were once more looked up on the plates. It seems probable therefore that all nebulae entered in our catalogue are real objects in the sky.

In regard to *variable* stars. As, with a few exceptions, but one HARVARD plate was available for each region and as a thorough comparison with the Mount Wilson plates has not yet been made, it could not be expected that variables would be found.

The star Area 104, 29, which had been taken for a double star, has turned out to be the planet 116 = Sirona. It has therefore been entered below among the errata.

The data for the faint stars contained in the present volume have been already used by Dr. VAN RHIJN for a preliminary determination of the way in which the number of stars per square degree depends on the magnitude and the galactic latitude. A more definitive treatment of the question must of course wait at least till the completion of the present Durchmusterung for the whole of the sky or, better still, till the further completion of the Mount Wilson Durchmusterung. Meanwhile the matter is so urgent for other researches that, at my request, Dr. VAN RHIJN has carefully worked up all the reliable materials now existing, including 65 regions of the present Catalogue. The investigation has just been issued in No. 27 of the Publications of the Laboratory.

2. *List of the plates* (Table II).

For the circumstances of the taking of the plates we refer to Professor Pickering's introduction.

Table II shows in

Col. 1 the number of the area according to „Plan of Selected Areas" (Systematic plan);

Col. 2 the number inscribed on the plate;

Col. 3 the date of exposure;

Col. 4 the telescope used:

M = Metcalf telescope; focal length 2.21 metres; aperture 16 inches; 1′ on plate = 0.642 millimeter.

M* = Metcalf telescope after the repolishing of the object glass. Focal length = 2.10 metres, 1′ on plate = 0.6114 millimeter.

B = Bruce telescope; focal length 3.45 metres; aperture 24 inches; 1′ on plate = 1.005 millimeter.

p. c. The letters p. c. indicate that a small angle prism has been attached to the object glass so that every star shows a prismatic companion. Of the plates taken with the Bruce telescope a few only have the companion. *All* the plates have another secondary image obtained by a short exposure with somewhat displaced telescope.

Col. 5 the duration of the exposure both for the main image and for this latter secondary image;

Cols 6—9 show respectively: the right ascension, declination, galactic longitude and galactic latitude for 1900 of the adopted centre of the plate. With a few accidental exceptions we took for the right ascension (for 1900) the full minute of time nearest to the right ascension of the central star; similarly for the declination the nearest multiple of 10′. The galactic longitude and latitude have been taken from a table computed for the adopted position of the pole of the Milky Way

$$\alpha = 12^h\,41^m\,20^s \qquad \delta = +\,27^\circ\,21';$$

Col. 10 the *photographic* magnitude, international scale, of the central star, taken from the catalogue. An asterisk indicates that the magnitude has been taken, unchanged, from Professor Pickering's list of standards;

Col. 11 the *visual* magnitude, Harvard scale, of the central star. With two exceptions these magnitudes were taken from a list given by Professor Pickering in 1910. (See Appendix II to the second report on the progress of the

TABLE II: LIST OF THE PLATES.

Area.	Plate.	Date	Telescope.	Times of exposure.	Adopted centre (1900) $x = 0$ $y = 0$				Central star (1900)						Limits		Area in sq. min.	Number of stars.	
		of							Magn.										
No.	No.	exposure.			α	δ	l	b	photographic.	vis.	α	δ	x	y	in x.	in y.		total.	p. sq. deg.
				m m	h m	° ′	°	°			h m	° ′	′	″ ′	′ ′	′ ′			
1	1853	1912, June 14	M. p.c.	60,1	8 0	+89 0	91	+28	7.11*	7.01	7 58.2	+88 56.0	99.48	95 59	69 to 29	−30 to +30	3600	378	378
2	3763	1913, Sept. 3	M.* p.c.	60,1	0 5	75 20	88	+13	9.37	8.36	0 4.8	75 16.3	99.34	96 18	79 » 19	−20 » +20	1600	460	1035
3	2053	1912, Oct. 15	M. p.c.	60,1	4 8	75 0	102	+18	8.64*	8.62	4 7.6	74 58.2	98.62	98 13	79 » 19	−20 » +20	1600	282	634
4	1817	1912, May 17	M. p.c.	60,1	8 4	74 50	107	+32	9.37	8.41	8 4.3	74 47.6	1.29	97 38	71 » 31	−30 » +30	3600	445	445
5	1807	1912, May 2	M. p.c.	60,1	12 28	75 0	91	+42	9.16	8.60	12 28.1	75 2.6	0.52	2 35	61 » 41	−40 » +40	6400	542	305
6	1882	1912, July 2	M. p.c.	60,1	16 14	74 50	75	+36	10.10	8.91	16 13.7	74 54.3	98.88	4 17	69 » 29	−30 » +30	3600	377	377
7	3923	1913, Sept. 25	M.* p.c.	60,1	20 24	75 10	76	+20	9.68*	8.95	20 24.3	75 7.4	1.29	97 21	71 » 31	−30 » +30	3600	1088	1088
											h m s								
8	1949	1912, Aug. 16	M. p.c.	60,1	1 0	60 10	92	− 2	8.18*	8.11	0 59 38	60 14.2	97.26	4 11	77 » 17	−20 » +20	1600	814	1832
9	7241	1914, Dec. 16	M.* p.c.	60,1	3 4	60 20	106	+ 3	7.03*	7.30	3 3 32	60 15.3	96.55	95 20	77 » 17	−20 » +20	1600	384	864
10	1553	1912, Jan. 13	M. p.c.	60,1	5 8	60 10	118	+13	8.76*	8.59	5 7 44	60 9.3	98,07	99 18	78 » 18	−20 » +20	1600	355	799
11	1784	1912, April 20	M. p.c.	60,1	7 7	60 0	123	+27	7.93*	7.14	7 6 46	59 56.8	98.19	96 46	68 » 28	−30 » +30	3600	762	762
12	1101	1911, May 20	M. p.c.	60,1	9 3	59 40	123	+41	8.48	8.17	9 2 44	59 39.6	97.96	99 36	58 » 38	−40 » +40	6400	436	245
13	1557	1912, Jan. 16	M. p.c.	60,1	11 3	59 50	111	+53	8.05*	7.17	11 2 58	59 45.4	99.70	95 23	60 » 40	−40 » +40	6400	413	232
14	1887	1912, July 3	M. p.c.	60,1	13 22	59 30	81	+57	10.14	9.22	13 22 21	59 25.1	2.68	95 06	63 » 43	−40 » +40	6400	378	213
15	1855	1912, June 14	M. p.c.	60,1	15 17	59 50	62	+48	9.55	8.35	15 16 34	59 53.0	96.74	2 58	57 » 37	−40 » +40	6400	684	385
16	1892	1912, July 4	M. p.c.	60,1	17 29	59 50	56	+33	8.69*	7.92	17 28 41	59 45.8	97.57	95 50	68 » 28	−30 » +30	3600	364	364
17	1893	1912, July 4	M. p.c.	60.1	19 23	60 10	59	+19	8.44*	7.51	19 22 41	60 9.0	97.66	99 01	78 » 18	−20 » +20	1600	413	929
18	3710	1913, Aug. 25	M.* p.c.	60,1	21 24	60 10	68	+ 6	9.67	8.51	21 24 27	60 6.6	3.35	96 35	83 » 23	−20 » +20	1600	1372	3087
19	3762	1913, Sept. 3	M.* p.c.	60,1	23 23	60 0	81	− 1	8.95*	9.08	23 23 1	60 1.4	0.17	1 21	80 » 20	−20 » +20	1600	1086	2444
20	1945	1912, Aug. 15	M. p.c.	60,1	0 40	45 20	89	−17	8.63*	8.66	0 40 19	45 20.9	3.37	0 56	83 » 23	−20 » +20	1600	480	1080
21	1437	1911, Nov. 22	M. p.c.	60,1	1 36	45 0	99	−17	9.50	8.53	1 35 51	45 4.3	98.38	4 18	78 » 18	−20 » +20	1600	766	1724
22	7203	1914, Dec. 15	M.* p.c.	60,1	2 38	45 10	111	−13	8.22*	8.08	2 38 12	45 10.6	2.10	0 35	82 » 22	−20 » +20	1600	1001	2252
23	2056	1912, Oct. 15	M. p.c.	60,1	3 39	45 0	120	− 7	7.86*	7.52	3 38 35	45 2.4	95.58	2 22	76 » 16	−20 » +20	1600	691	1555
24	653	1910, Oct. 12	M. p.c.	61,1	4 39	44 50	128	0	9.81*	8.92	4 38 38	44 54.5	96.16	4 30	76 » 16	−20 » +20	1600	637	1433
25	2090	1912, Nov. 2	M. p.c.	60,1	5 37	44 50	133	+ 9	9.17*	8.97	5 37 24	44 47.6	4.29	97 39	84 » 24	−20 » +20	1600	462	1040
26	1498	1911, Dec. 28	M. p.c.	60,1	6 36	44 50	138	+18	10.15	9.35	6 36 19	44 49.2	3.42	99 09	83 » 23	−20 » +20	1600	410	922
27	1499	1911, Dec. 28	M. p.c.	60,1	7 38	44 50	141	+29	9.82	9.00	7 38 12	44 48.9	2.21	98 55	72 » 32	−30 » +30	3600	554	554
28	1778	1912, April 11	M. p.c.	60,1	8 40	45 0	143	+39	9.93	9.06	8 39 51	44 56.6	98.34	96 36	68 » 28	−30 » +30	3600	341	341
29	1818	1912, May 17	M. p.c.	60,1	9 39	44 50	141	+50	8.60*	8.28	9 38 31	44 52.7	94.84	2 40	55 » 35	−40 » +40	6400	530	298
30	1779	1912, April 11	M. p.c.	60,1	10 37	45 10	135	+60	10.07	8.96	10 37 21	45 9.1	3.69	99 07	64 » 44	−40 » +40	6400	515	290
31	1559	1912, Jan. 16	M. p.c.	60,1	11 37	44 40	123	+68	9.24	8.72	11 36 54	44 41.8	99.00	1 49	59 » 39	−40 » +40	6400	294	165
32	1769	1912, April 8	M. p.c.	60,1	12 51	44 50	84	+72	9.35*	8.89	12 50 33	44 50.1	95.16	0 08	55 » 35	−40 » +40	6400	465	262
33	1854	1912, June 14	M. p.c.	60,1	13 50	45 10	57	+67	9.42	9.02	13 50 7	45 12.9	1.16	2 53	61 » 41	−40 » +40	6400	478	269
34	1787	1912, April 20	M. p.c.	60,1	14 48	45 0	43	+59	8.37*	7.86	14 47 48	45 1.2	97.80	1 13	58 » 38	−40 » +40	6400	570	321
35	1569	1912, Jan. 23	M. p.c.	60,1	15 49	44 50	39	+49	9.63	8.91	15 49 29	44 49.2	5.09	99 10	65 » 45	−40 » +40	6400	646	363
36	1846	1912, June 8	M. p.c.	60,1	16 46	45 20	38	+39	9.00*	8.75	16 45 58	45 22.5	99.69	2 28	70 » 30	−30 » +30	3600	449	449
37	1881	1912, June 30	M. p.c.	60,1	17 49	45 0	39	+28	9.71	9.20	17 48 31	45 0.5	94.85	0 28	65 » 25	−30 » +30	3600	526	526
38	1290	1911, Sept. 27	M. p.c.	60,1	18 46	45 10	42	+18	9.30*	8.24	18 46 12	45 12.4	2.08	2 24	82 » 22	−20 » +20	1600	618	1390
39	1291	1911, Sept. 27	M. p.c.	60,1	19 47	44 50	47	+ 9	9.02*	8.06	19 46 51	44 53.8	98.47	3 51	78 » 18	−20 » +20	1600	1467	3301
40	1295	1911, Sept. 30	M. p.c.	60,1	20 47	45 0	53	0	9.53*	8.66	20 46 33	44 58.4	95.26	98 24	75 » 15	−20 » +20	1600	793	1784
41	1942	1912, Aug. 15	M. p.c.	60,1	21 50	45 0	61	− 8	9.84	9.31	21 49 36	44 58.9	95.69	98 54	76 » 16	−20 » +20	1600	1014	2282
42	1298	1911, Oct. 2	M. p.c.	60,1	22 49	45 10	70	−13	9.06*	8.01	22 48 45	45 9.7	97.36	99 41	77 » 17	−20 » +20	1600	788	1773
43	1296	1911, Sept. 30	M. p.c.	60,1	23 50	44 50	80	−17	9.75*	8.25	23 49 55	44 50.2	99.04	0 12	79 » 19	−20 » +20	1600	465	1046
44	1225	1911, Aug. 18	M. p.c.	50,1	0 24	30 10	85	−32	8.78*	8.70	0 24 6	30 10.9	1.27	0 53	71 » 31	−30 » +30	3600	442	442
45	1355	1911, Oct. 26	M. p.c.	60,1	1 26	30 10	101	−32	8.86*	8.18	1 26 9	30 6.6	2.01	96 39	72 » 32	−30 » +30	3600	525	525
46	1253	1911, Sept. 3	M. p.c.	60,1	2 29	30 10	117	−27	9.19*	8.36	2 29 27	30 14.6	5.75	4 38	76 » 36	−30 » +30	3600	496	496
47	4532	1913, Dec. 30	M.* p.c.	60,1	3 23	30 0	127	−21	7.11*	7.12	3 22 38	30 1.7	95.35	1 42	65 » 25	−30 » +30	3600	273	273
48	1433	1911, Nov. 18	M. p.c.	60,1	4 23	30 10	136	−12	6.86*	6.30	4 22 33	30 8.4	94.24	98 25	74 » 14	−20 » +20	1600	451	1015
49	1369	1911, Oct. 29	M. p.c.	60,1	5 24	29 40	145	− 2	9.93*	8.71	5 23 40	29 44.9	95.64	4 55	76 » 16	−20 » +20	1600	917	2063
50	1765	1912, April 8	M. p.c.	60,1	6 24	29 50	151	+10	8.09*	8.04	6 24 22	29 53.8	4.83	3 46	85 » 25	−20 » +20	1600	1136	2556
51	1781	1912, April 13	M. p.c.	60,1	7 24	30 0	156	+22	10.05	9.56	7 24 21	30 2.3	4.64	2 16	75 » 35	−30 » +30	3600	795	795
52	1766	1912, April 8	M. p.c.	60,1	8 26	30 0	161	+35	8.35*	8.08	8 25 43	30 2.9	96.40	2 53	66 » 26	−30 » +30	3600	659	659
53	4694	1914, Febr. 4	M.* p.c.	60,1	9 25	30 0	164	+47	9.25*	8.97	9 24 34	30 0.7	94.31	0 44	54 » 34	−40 » +40	6400	632	356
54	1106	1911, May 27	M. p.c.	60,1	10 24	30 0	166	+60	9.53*	9.26	10 24 8	30 1.4	1.78	1 26	62 » 42	−40 » +40	6400	364	205
55	1107	1911, May 27	M. p.c.	60,1	11 30	30 0	166	+74	9.47*	8.68	11 29 48	29 58.7	97.30	98 43	57 » 37	−40 » +40	6400	367	206

TABLE II. *Continued.*

Area. No.	Plate. No.	Date of exposure.	Telescope.	Times of exposure.	Adopted centre (1900) $x = 0$ $y = 0$				Central star (1900)						Limits		Area in sq. min.	Number of stars.	
									Magn.										
					α	δ	l	b	photographic.	vis.	α	δ	x	y	in x.	in y.		total.	p. sq. deg.
				m m	h m	° ′	°	°			h m	° ′	′	″ ′	′ ′	′ ′			
56	911	1911, Febr. 5	M. p.c.	60,1	11 58	+29 40	163	+80	9.53*	8.23	11 58 12	+29 40.7	2.50	0 41	62 to 42	−40 to +40	6400	373	210
57	2442	1913, Jan. 9	M. p.c.	60,1	13 4	30 0	30	+84	8.83*	8.53	13 3 52	29 55 2	98.20	95 11	58 » 38	−40 » +40	6400	405	228
58	913	1911, Febr. 5	M. p.c.	60,1	14 0	29 40	12	+72	9.35*	7.68	13 59 59	29 37.4	99.68	97 22	60 » 40	−40 » +40	6400	414	233
59	1848	1912, June 9	M. p.c.	60,1	15 2	29 50	13	+59	9.34*	9.01	15 1 55	29 49.1	98.94	99 08	59 » 39	−40 » +40	6400	655	368
60	1083	1911, May 4	M. p.c.	60,1	15 56	29 50	15	+47	9.30*	8.57	15 56 10	29 55.0	2.25	4 58	62 » 42	−40 » +40	6400	624	351
61	1898	1912, July 6	M. p.c.	60,1	16 59	30 0	19	+34	9.06*	8.94	16 58 50	29 57.7	97.93	97 43	68 » 28	−30 » +30	3600	540	540
62	1847	1912, June 9	M. p.c.	60,1	17 55	30 0	24	+23	7.20	7.05	17 55 13	30 3.4	2.77	3 23	73 » 33	−30 » +30	3600	1471	1471
63	1272	1911, Sept. 16	M. p.c.	60,1	19 0	30 0	29	+10	8.90*	9.14	19 0 11	30 1.1	2.30	1 08	82 » 22	−20 » +20	1600	854	1922
64	1326	1911, Oct. 13	M. p.c.	60,1	19 58	30 0	35	−1	8.12*	7.62	19 57 32	29 56.5	93.86	96 31	74 » 14	−20 » +20	1600	1951	4390
65	1899	1912, July 6	M. p.c.	60,1	20 59	30 10	43	−12	9.04*	8.88	20 59 16	30 5.7	3,42	95 40	83 » 23	−20 » +20	1600	641	1442
66	1860	1912, June 20	M. p.c.	60,1	21 58	30 10	53	−21	9.68*	9.04	21 58 21	30 8.1	4.58	98 06	75 » 35	−30 » +30	3600	1496	1496
67	1941	1912, Aug. 14	M. p.c.	60,1	23 1	30 10	65	−28	8.98*	8.20	23 0 57	30 11.0	99.34	1 01	69 » 29	−30 » +30	3600	548	548
68	638	1910, Oct. 10	M. p.c.	60,1	0 11	15 20	79	−47	8.13*	8.27	0 11 25	15 16.9	6.01	96 52	66 » 46	−40 » +40	6400	467	263
69	649	1910, Oct. 11	M. p.c.	64,1	1 15	15 10	102	−47	7.97*	7.39	1 15 21	15 10.3	5.12	0 17	65 » 45	−40 » +40	6400	378	213
70	1256	1911, Sept. 4	M. p.c.	60,1	2 16	15 0	121	−42	7.63*	7.90	2 16 19	15 3.7	4.54	3 41	65 » 45	−40 » +40	6400	424	238
71	2498	1913, Jan. 25	M. p.c.	60,1	3 11	15 0	135	−34	9.36*	8.65	3 11 37	15 2.4	8.95	2 23	79 » 39	−30 » +30	3600	358	358
72	1288	1911, Sept. 26	M. p.c.	60.1	4 10	15 10	146	−24	6.82*	6.22	4 10 5	15 9.1	1.30	99 04	71 » 31	−30 » +30	3600	321	321
73	2096	1912, Nov. 3	M. p.c.	60,1	5 14	15 0	156	−11	7.94*	8.14	5 14 53	14 57.5	12.87	97 29	93 » 33	−20 » +20	1600	373	839
74	1434	1911, Nov. 18	M. p.c.	60,1	6 15	15 10	163	+1	8.86*	9.13	6 15 15	15 5.8	3.56	95 50	84 » 24	−20 » +20	1600	639	1438
75	1652	1912, Febr. 16	M. p.c.	60,1	7 14	15 10	170	+14	9.37*	8.48	7 14 57	15 5.2	13.72	95 09	94 » 34	−20 » +20	1600	796	1791
76	767	1910, Nov. 25	M. p.c.	60,1	8 15	15 0	177	+27	9.09*	9.03	8 15 34	15 1.4	8.11	1 25	78 » 38	−30 » +30	3600	496	496
77	768	1910, Nov. 25	M. p.c.	60,1	9 10	14 30	183	+39	8.57*	8.19	9 10 38	14 32.9	9.10	2 55	79 » 39	−30 » +30	3600	329	329
78	1665	1912, Febr. 23	M. p.c.	60,1	10 13	15 10	192	+54	9.43*	8.40	10 13 54	15 10.2	13.07	0 13	73 » 53	−40 » +40	6400	458	258
79	905	1911, Jan. 30	M. p.c.	60 1	11 17	14 50	208	+67	9.09*	8.37	11 17 42	14 52.3	10.05	2 20	70 » 50	−40 » +40	6400	395	222
80	906	1911, Jan. 30	M. p.c.	60,1	12 12	15 0	240	+76	8.35	8.21	12 12 32	15 0.0	7.71	99 59	68 » 48	−40 » +40	6400	311	175
81	1568	1912, Jan. 23	M. p.c.	60,1	13 12	14 40	301	+75	9.81*	9.14	13 12 2	14 42.0	0.59	1 59	61 » 41	−40 » +40	6400	379	213
82	1082	1911, May 4	M. p.c.	60,	14 14	15 20	336	+65	9.44	8.26	14 14 39	15 23.8	9.51	3 45	70 » 50	−40 » +40	6400	434	244
83	1742	1912, Mar. 25	M. p.c.	60,1	15 9	14 50	347	+53	9.21*	8.58	15 9 6	14 49.4	1.50	99 22	62 » 42	−40 » +40	6400	596	335
84	1108	1911, May 27	M. p.c.	60,1	16 12	15 0	357	+40	8.65*	8.52	16 12 11	15 2.3	2.69	2 17	63 » 43	−40 » +40	6400	761	428
85	1897	1912, July 6	M. p.c.	60,1	17 10	15 0	4	+27	8.82*	8.28	17 10 53	15 1.5	12.88	1 30	83 » 43	−30 » +30	3600	666	666
86	1894	1912, July 5	M. p.c.	60,1	18 11	15 0	10	+13	9.69*	9.18	18 11 45	15 2.3	10.80	2 18	91 » 31	−20 » +20	1600	823	1852
87	1851	1912, June 13	M. p.c.	60,1	19 11	15 0	17	0	9.01*	8.05	19 11 15	15 2.8	3.66	2 50	84 » 24	−20 » +20	1600	937	2108
88	1192	1911, July 19	M. p.c.	60,1	20 10	15 10	24	−12	8.16*	8.66	20 10 57	15 7.9	13.73	97 55	94 » 34	−20 » +20	1600	1452	3267
89	1228	1911, Aug. 19	M. p.c.	60,1	21 8	15 10	33	−23	8.22*	8.11	21 8 11	15 10.6	2.68	0 39	73 » 33	−30 » +30	3600	1322	1322
90	1224	1911, Aug. 18	M. p.c.	60,1	22 12	15 10	45	−34	9.12*	9.03	22 12 47	15 13.3	11.24	3 19	81 » 41	−30 » +30	3600	695	695
91	4386	1913, Nov. 26	M.* p.c.	60,1	23 13	15 0	61	−43	8.56*	8.23	23 13 9	15 3.4	2.19	3 27	62 » 42	−40 » +40	6400	1252	704
92	6289	1914, Sept. 15	M.* p.c.	60,1	0 50	+ 0 10	95	−62	8.74*	8.20	0 49 54	+ 0 14.9	98.42	4 56	58 » 38	−40 » +40	6400	593	334
93	6676	1914, Oct. 22	M.* p.c.	60,1	1 50	+ 0 20	123	−58	9.55*	9.59	1 49 42	+ 0 17.6	95.60	97 36	56 » 36	−40 » +40	6400	719	404
94	4390	1913, Nov. 26	M.* p.c.	60,1	2 51	+ 0 10	143	−48	9.89	8.79	2 50 48	+ 0 6.6	97.09	96 39	57 » 37	−40 » +40	6400	710	399
95	6732	1914, Oct. 27	M.* p.c.	60,1	3 50	0 0	157	−37	8.95*	8.79	3 49 8	− 0 0.4	87.00	99 37	57 » 17	−30 » +30	3600	404	404
96	4543	1913, Dec. 30	M.* p.c.	60,1	4 48	0 0	166	−25	9.26*	9.04	4 47 43	− 0 3.0	95.78	97 03	66 » 26	−30 » +30	3600	991	991
97	6712	1914, Oct. 23	M.* p.c.	60,1	5 52	0 0	174	−11	6.64*	6.96	5 52 18	+ 0 0.9	4.50	0 56	85 » 25	−20 » +20	1600	381	857
98	6920	1914, Nov. 14	M.* p.c.	60,1	6 47	− 0 10	181	+1	8.20*	8.33	6 47 4	− 0 10.5	0.89	99 28	81 » 21	−20 » +20	1600	1702	3830
99	10553	1912, May 11	B. p.c.	120,6	7 50	− 0 20	188	+15	9.28*	8.58	7 49 40	− 0 13.9	95.08	6 06	75 » 15	−20 » +20	1600	447	1006
100	1017	1911, April 1	M. p.c.	60,1	8 49	− 0 10	196	+28	9.06*	8.49	8 48 52	− 0 14.0	98.08	96 00	68 » 28	−30 » +30	3600	699	699
101	10677	1913. May 26	B. p.c.	120,2	9 52	0 0	206	+41	8.88*	7.72	9 51 32	+ 0 0.8	93.04	0 50	53 » 33	−40 » +40	6400	603	339
102	8326	1907, May 31	B.	120,2	10 50	− 0 20	221	+52	9.05*	8.88	10 50 18	− 0 16.8	4.49	3 13	65 » 45	−40 » +40	6400	1108	623
103	8257	1907, May 3	B.	120,2	11 50	0 0	244	+60	8.41*	8.44	11 49 54	0 0.0	98.42	0 01	58 » 38	−40 » +40	6400	889	500
104	7675	1906, May 19	B.	120,2	12 38	0 0	268	+63	9.78*	9.92	12 37 59	+ 0 0.5	99.67	0 32	60 » 40	−40 » +40	6400	830	467
105	7694	1906, May 25	B.	120,2	13 33	− 0 10	295	+60	9.26*	9.08	13 32 40	− 0 7.0	94.89	3 03	55 » 35	−40 » +40	6400	819	461
106	8288	1907, May 17	B.	120,2	14 37	0 0	320	+51	10.56	9.53	14 36 31	− 0 0.4	92.75	99 39	53 » 33	−40 » +40	6400	1342	755
107	10158	1910, July 1	B.	120,2	15 34	0 0	334	+40	7.74*	7.58	15 33 55	+ 0 1.0	98.68	1 00	59 » 39	−40 » +40	6400	1094	615
108	8357	1907, June 15	B.	120,2	16 32	− 0 10	343	+28	9.07*	8.12	16 32 14	− 0 12.6	3.38	97 27	73 » 33	−30 » +30	3600	2078	2078
109	7964	1906, Aug. 9	B.	120,2	17 40	− 0 10	353	+14	8.31*	8.52	17 39 43	− 0 5.5	95.76	15 30	76 » 16	−20 » +20	1600	1144	2574
110	7992	1906, Aug. 11	B.	120,2	18 37	0 0	0	+1	10.02*	8.84	18 37 10	+ 0 3.5	2.62	3 33	73 » 33	−30 » +30	3600	538	538
111	7976	1906, Aug. 10	B.	120 2	19 33	+ 0 10	6	−11	6.97*	7.22	19 33 15	+ 0 7.1	3.65	97 9	74 » 34	−30 » +30	3600	3903	3903
112	8962	1908, July 25	B.	120,2	20 37	+ 0 10	15	−25	9.17*	9.11	20 37 17	+ 0 5.3	4.18	95 17	74 » 34	−30 » +30	3600	2856	2856
113	10192	1910, July 13	B.	120,2	21 37	0 0	24	−38	8.76*	8.75	21 37 20	− 0 0.6	4.92	0 36	75 » 35	−30 » +30	3600	654	654
114	9850	1909, Oct. 12	B.	120,2	22 37	+ 0 10	38	−49	9.30*	8.60	22 37 17	+ 0 14.9	4.19	4 52	64 » 44	−40 » +40	6400	811	456
115	10267	1910, Sept. 7	B. p.c.	120,2	23 38	+ 0 20	60	−58	9.37	8.73	23 38 8	+ 0 20.9	1.89	0 57	62 » 42	−40 » +40	6400	603	339

Plan of Selected Areas, Hoitsema brothers, Groningen 1911. For area 81 the magnitude of the central star is wanting in this list. I took it from HARVARD Annals 54 page 146. For area No. 1 I have preferred the magnitude given in the HARVARD polar sequence (HARVARD Annals 71 No. 3 p. 49).

Cols 12 and 13. Right-ascension and declination for 1900 of central star.

Cols 14 and 15. x and y of central star. As for the x in the Catalogue negative values have been avoided by adding 100′. From all numbers exceeding 50 we have therefore subtract 100′. For area 1, for instance,

$x = 99'.48$ is equivalent with $x = -0'.52$
$y = 95'.59''$ „ „ „ $y = -4'.1''$.

Cols 16 and 17. The *exact* limits in x and y between which the plates have been completely measured. Outside these limits a certain number of stars have been observed for special purposes, but *none* of these have been included in the Catalogue. In col. 16 too all the numbers exceeding 50′ are to be diminished by 100′.

Col. 18 number of square minutes measured, computed from Cols 16 and 17.

Col. 19 number of stars in catalogue.

Col. 20 number of stars *per square degree*, computed from columns 18 and 19.

Remarks to table II.

Area 16. Faint images very diffuse.
„ 25. Centre of area follows centre of plate at a distance of 80′.
„ 28. Images perceptibly double.
„ 31. Images oblong.
„ 40. Images oblong. Faint stars diffuse.
„ 58. Images very diffuse.
„ 59. Film damaged between $x = 974.7$ to 977.9; $D + y = + 30° 10' 10''$ to $11' 10''$.
„ 62 Col. 10. Duplex. Harvard magnitudes 7.76, 8.19 combined 7.20.
„ 63. Faint stars diffuse. Centre of area follows centre of plate at distance of 70′.
„ 64. Images somewhat diffuse and double.
„ 68. Bright images oblong; faint images double.
„ 75. Images irregular; estimates of diameter difficult.
„ 80. Images of faint stars very diffuse.
„ 81. Images oblong. Visual magnitude of central star taken from H. A. 54, 146.
„ id. Col. 11. Visual magn. taken from Harv. Ann. 54 p. 146.
„ 82. No short exposure.
„ 84. Images double. Brightest component measured.

Area	85.	Many starlike specks on plate.
„	98.	Faint images diffuse.
„	98.	Images diffuse.
„	102.	Images oblong.
„	108.	Images in short exposure oblong.
„	110.	More than 40' × 40' measured because number of stars is relatively small.
„	113.	Images oblong.

3. *The measuring machine.*

In what follows I will give a very concise description of the measuring instrument, which will suffice for the right understanding of the measures made with it.

The machine is really meant for accurate *differential* measures For the rectangular coordinates x and y themselves it is not meant to yield great precision. The fact finds its expression in the impossibility of reading the x and y scales with a precision exceeding 0'.01. In fact it is only at my urgent request that the Brothers Repsold were willing to provide the means of obtaining readings accurate even to this limit. The sequel will show that, notwithstanding this, a very respectable accuracy was obtained and there seems little doubt that even this does not represent the limit of accuracy attainable.

Figure 1 gives a representation of the apparatus. Its main characteristics are dependent on the condition it had to satisfy of taking plates of any size below
36 × 44 centimetres.

It is furnished with a fixed microscope A through which the observer sees the plate. The motion in the two rectangular directions is therefore wholly thrown on the negative. It is carried for this purpose on a movable frame BN, which we will call the y frame because its motion measures the coordinate y. It is carried in its turn by the great x frame PS. The lowest bar of the y frame carries two supports V and W which bear the lower border of the plate p in two points in the way indicated by figure 2.

These supports are movable along a horizontal bar in order that their distance may be changed in accordance with the size of the plate to be measured. Once brought at the proper distance they are firmly clamped The support V is provided with a small lever which by the turning of the screw-head, visible in the figure, moves the supported point of the plate upward or downward. This motion is of course meant for the orientation of the plate.

The upper part of the plate is held in position by a similar support H fixed to the bar CT which, in the y frame, can by lowered so far as is necessary to bring the upper support in its proper place at the upper rim of the plate. This movable bar hangs by silken threads on the horizontal cylinder F which by two collars, in which the cylinder can freely rotate, is attached to the upper part DN of the moving *y* frame. By turning this cylinder in the proper direction the

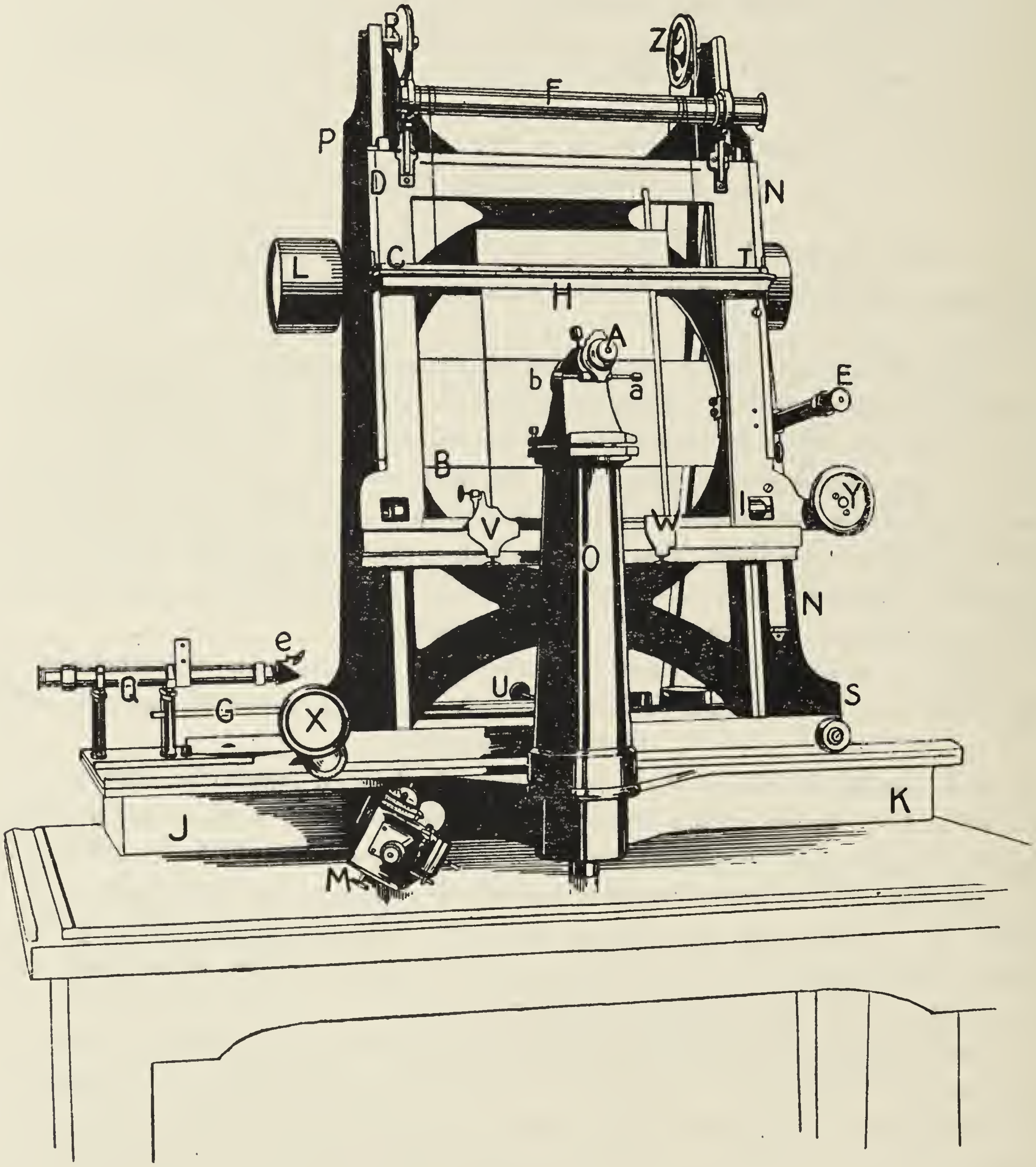

Figure 1.

silken threads are unwound and the bar CT can be lowered to any desired extent. The y frame rests against the x frame PS with small steel wheels, moving over carefully planed, perfectly parallel steel rails, the one of which (the right hand one in the figure) is prismatic, the other plane. It hangs on two steel ropes, which pass over the pulleys R, Z and carry on their other side the counterpoises L. The necessary pressure of the y frame against the supporting x frame is obtained by an inclination of the latter of about 13° to the vertical.

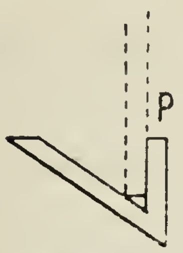

Figure 2.

The y frame, carrying the plate, is moved up and down by turning the button Y. This motion can be read off from a divided nickel steel scale attached to the x frame by the microscope E, attached to the y frame.

The x frame PS rests itself on 4 steel wheels running over two perfectly parallel rails of which only the one, which is prismatic, is well shown in the figure, whereas the other, which in plane, is hidden by the other parts of the machine. The rails are attached to the very heavy under part of the machine JK to which is also attached the column O bearing the observing microscope A and the microscope Q which reads the x on a scale G attached to the x frame. The motion of the x frame is governed by the button X.

Both the x and y scale have been divided in such a way that one part shall correspond as nearly as possible to $1'$ on the plate This necessitates a separate set of scales for plates obtained with telescopes of different focal length. The laboratory accordingly at present possesses three pairs of these scales, one for the plates of each of the Metcalf and Bruce telescopes, one for the plates obtained with the Mount Wilson 60-inch reflector.

The x-scale has been made movable along its own axis in order that the reading of the adopted centre of the plate may be made exactly *zero*. The button by which this motion is given is just visible at U.

The two reading microscopes Q and E have photographic ocular scales, of which there are of course also three sets, bij which an interval of the scale, which represents approximately $1'$ on the plate, is divided in *ten* equal parts. As the tenth parts of the intervals of the ocular scale can easily be estimated, the reading is made accurate to $0'.01$.

The field of the observing microscope A covers about $11'$ on the Bruce plates. On the Metcalf plates the field is of course much larger. It has, however, been brought to the same extension in the direction of the y (declination) by blackening the superfluous parts of the ocular scale. The ocular scale, by which in reality the coordinates y were determined, has been divided in 66 equal parts, so that each interval corresponds to 10 seconds of arc on the plates. As tenths are again easily estimated the readings are made to the nearest second of arc. Separate scales have been used not only for plates of different origin but also for the northern and southern hemispheres in order that the scale readings will increase in both cases with the northern resp. southern declination.

The *exact* correspondence of one part of the scale to 10″ on the plate, was obtained by the ordinary correction arrangements of the microscope **A**. As the distance of the plane defined by the three points of support of the filmside of the plates to the microscope is always the same, it has been at first supposed that the correspondence of the part of the scale to 10″ on the plate, once obtained, would remain perfect for quite a series of plates. As already mentioned above, this proved to be false, owing to curvature of the plates, different for the different plates and other causes. The errors thus introduced have of course been corrected in the reduction. After the error had been remarked the correction of the microscope has been made for the central part of every Bruce plate separately.

The scale value being thus rectified, the vertical line of the scale, which we will call the transit line, had to be put perfectly parallel to the motion of the plate in the y direction. This is easily effected by means of the correction screws a and b. The parallelism has been verified after each rectification of the scale value.

In M is shown the microscope (not used for the present work) for refined differential work. It is provided with two fine micrometers at right angles to each other.

4. *The orientation.*

The first thing after putting a plate in the machine, after ascertaining (whenever necessary) the correctness of the scale value and the position of the transit line, is the orientation.

The accurate orientation on the parallel of 1900, was obtained by means of a couple of standard stars for which the x and y (for 1900) had been computed in advance from the α and δ given in the Astronomische Gesellschaft Zone catalogue. These were so chosen that they lie somewhat symmetrically on both sides of the centre of the plate at a considerable distance in x and a small distance in y. By the lever of the support V (see figure) the orientation of the plate is changed till the y difference yielded by the instrument agrees exactly with the difference computed from the standard stars. As soon as this has been reached the plate is oriented.

The x scale is now bodily moved in its own direction (by turning the button U) so much that the reading of the adopted centre of the plate becomes exactly *zero*. This is obtained by making the x reading for a standard star near the centre of the plate exactly equal to its computed value.

5. *Standards for position.*

The orientation being completed a series of preliminary measures was made, the purpose of which was to extend the number of standards for position.

This extension was necessary because it seemed to me desirable to be able to reduce each zone of 10′ with on its own merits. For this purpose a number of some 5 standards well distributed over the zone seem required. The Astronomische Gesellschaft Catalogue, (A. G. C) which was used for the primary Standards, is far from furnishing this number.

In this preliminary observation of the plates, therefore, were observed the x and y coordinate

a of all the standard stars in the A. G. C on the area to be measured *and its surroundings.*

b. of so many other stars that, together with the A. G. C. stars within the area to be completely measured, we got at least 5 well distributed stars in every zone. In most zones the number of standards definitively exceeds 5; in a few cases it falls short of this number. In the latter case the overlapping stars of the neighbouring zones readely furnish the necessary supplementary data

All these stars were brought successively exactly in the centre of the field (reading 5′ 0″ of the ocular scale) after which both the x and y scale were read accurate to 0′.01.

As the x and y scale (for 1900) of each A. G. C. star had been carefully computed beforehand, we thus were able to find for these stars the corrections to be applied to the observed values of x and y in order to reduce them to the standard values. Then, assuming that these corrections, for the whole of the observed regions, are linear functions of the x and y, the same corrections could easily be obtained for all the observed stars.

Not only are the secondary standards thus obtained not inferior to the primary ones; their individual positions proved to be very much *better*, the cause being that, whereas the generally unknown proper motions of the primary standards make their positions at the present time somewhat unreliable, the secondary standards are only somewhat systematically affected by the *average* motion of these stars. In fact the whole process of reduction introdues the average parallactic motion of the primary standards as a systematic error into the whole of the plate. According to a rough estimate this error may amount in the extreme to something like *one* second of arc. In consideration of the systematic errors that still affect our best catalogues, I have deemed such a systematic error in a Durchmusterung catalogue immaterial. For the rest, as soon as the already promised redetermination in the meridian of the positions of the A. G. C. stars on the plates will have been made, the derivation of such an error will follow at once.

For some of the plates — those in the belts of declination + 30° and + 15° together with a few in the belt of + 45° — the secondary standards were obtained in another way, *viz.* from the catalogues of the „Carte du ciel" for Oxford, Bordeaux and Helsingfors. On account of the necessity, however, of reducing the coordinates of these „Carte du ciel" stars to the same centre as that of our plates, the economy in point of time, if any, has been very little.

In view of the — very desirable — eventuality, already alluded to above, of some astronomer undertaking the extension of the selected areas for the brighter stars, and as a first contribution to such a work, I will here set down the formulae used by ourselves for the zones + 30° and + 15°. They furnish the means of passing by an easy computation, from the coordinates of the „Carte du ciel" catalogue to those of our Durchmusterung.

Table III.

Area.	Centre (1900).		Transformation formulae.					
No.	Sel. Ar.	Oxford.						
	h m ° ′	h m ° ′		′	′		′	
44	0 24 + 30 10	0 27 + 30 0	$x_{S.A.} = 5x_{Oxf.}$	− 23.902	− 0.00757	$(5x_{Oxf})$	− 0.00996	$(5y_{Oxf.})$
45	1 26 + 30 10	1 30 + 30 0		− 12.353	+ .00062		− .00954	
46	2 29 + 30 10	2 33 + 30 0		− 12.894	+ .00002		− .00997	
47	3 23 + 30 0	3 27 + 30 0		− 12.265	+ .00065		− .00466	
48	4 23 + 30 10	4 21 + 30 0		− 90.462	+ .00047		+ .00053	
49	5 24 + 29 40	5 24 + 30 0		− 63.749	+ .00053		− .00599	
50	6 24 + 29 50	6 27 + 30 0		− 25.472	+ .00047		− .00856	
51	7 24 + 30 0	7 21 + 30 0		− 102.708	+ .00038		− .00304	
52	8 26 + 30 0	8 24 + 30 0		− 90.928	+ .00057		+ .00425	
53	9 25 + 30 0	9 27 + 30 0		− 38.821	+ .00049		− .00818	
54	10 24 + 30 0	10 21 + 30 0		− 104.558	+ .00049		+ .00266	
55	11 30 + 30 0	11 33 + 30 0		− 25.633	+ .00067		− .01152	
56	11 58 + 29 40	12 0 + 30 0		− 37.548	+ .00062		− .01510	
57	13 4 + 30 0	13 3 + 30 0		− 75.517	− .00001		+ .00210	
58	14 0 + 29 40	13 57 + 30 0		− 103.551	+ .00022		+ .00355	
59	15 2 + 29 50	15 0 + 30 0		− 90.416	+ .00050		− .00465	
60	15 56 + 29 50	15 54 + 30 0		− 90.514	+ .00035		− .00744	
61	16 59 + 30 0	16 57 + 30 0		− 89.138	+ .00035		− .00865	
62	17 55 + 30 0	17 51 + 30 0		− 116.402	+ .00023		+ .00722	
63	19 0 + 30 0	19 3 + 30 0		− 23.376	+ .00078		− .00814	
64	19 58 + 30 0	19 57 + 30 0		− 75.042	+ .00057		− .00162	
65	20 59 + 30 10	21 0 + 30 0		− 65.865	− .00766		− .00701	
66	21 58 + 30 10	21 54 + 30 0		− 115.491	− .00751		− .00175	
67	23 1 + 30 10	22 57 + 30 0		− 115.426	− .00740		+ .00260	

TABLE III. *Continued.*

Area. No.	Centre (1900). Sel. Ar.	Centre (1900). Bordeaux.	Transformation formulae.					
	h m ° ′	h m ° ′		′	′		′	
68	0 11 + 15 20	0 12 + 15 0	$x_{S.A.} = x_{Bord.}$	+ 14.513	— 0.00493	$(x_{Bord.})$	+ 0.00044	$(y_{Bord.})$
69	1 15 + 15 10	1 16 + 15 0		+ 14.424	— .00497		— .00016	
70	2 16 + 15 0	2 20 + 15 0		+ 57.359	— .00487		— .01254	
71	3 11 + 15 0	3 8 + 15 0		— 43.511	— .00486		+ .00438	
72	4 10 + 15 10	4 12 + 15 0		+ 29.078	— .00502		— .00244	
73	5 14 + 15 0	5 16 + 15 0		+ 28.997	— .00483		— .00253	
74	6 15 + 15 10	6 12 + 15 0		— 43.346	— .00479		+ .00425	
75	7 14 + 15 10	7 16 + 15 0		+ 28.817	— .00499		— .00271	
76	8 15 + 15 0	8 12 + 15 0		— 43.588	— .00488		+ .00285	
77	9 10 + 14 30	9 8 + 15 0		— 29.032	— .00495		+ .00219	
78	10 13 + 15 10	10 12 + 15 0		— 14.464	— .00510		+ .00118	
79	11 17 + 14 50	11 16 + 15 0		— 14.581	— .00489		+ .00111	
80	12 12 + 15 0	12 12 + 15 0		— 0.163	— .00499		+ .00001	
81	13 12 + 14 40	13 8 + 15 0		— 58 133	— .00502		+ .00465	
82	14 14 + 15 20	14 12 + 15 0		— 29.077	— .00502		+ .00333	
83	15 9 + 14 50	15 8 + 15 0		— 14.712	— .00500		— .00046	
84	16 12 + 15 0	16 12 + 15 0		+ 0.041	— .00502		+ .00063	
85	17 10 + 15 0	17 8 + 15 0		— 28.956	— .00502		+ .00289	
86	18 11 + 15 0	18 12 + 15 0		+ 14.238	— .00505		+ .00015	
87	19 11 + 15 0	19 8 + 15 0		— 43.685	— .00487		+ .00449	
88	20 10 + 15 10	20 12 + 15 0		+ 28.844	— .00503		— .00092	
89	21 8 + 15 10	21 8 + 15 0		— 0.058	— .00503		+ .00170	
90	22 12 + 15 10	22 12 + 15 0		+ 0.009	— .00508		+ .00056	
91	23 13 + 15 0	23 16 + 15 0		+ 43.773	— .00512		— .00304	

TABLE III. *Continued.*

Area. No.	Centre (1900).		Transformation formulae.					
	Sel. Ar.	Oxford.						
	h m ° ′	h m ° ′		′	′		′	
44	0 24 + 30 10	0 27 + 30 0	$y_{S.A.} = 5y_{Oxf.}$	− 74.202	+ 0.00986	$(5x_{Oxf.})$	− 0.00748	$(5y_{Oxf.})$
45	1 26 + 30 10	1 30 + 30 0		− 74.820	+ .00935		+ .00046	
46	2 29 + 30 10	2 33 + 30 0		− 75.358	+ .00993		+ .00053	
47	3 23 + 30 0	3 27 + 30 0		− 64.823	+ .00471		+ .00066	
48	4 23 + 30 10	4 21 + 30 0		− 74.936	+ .00005		+ .00055	
49	5 24 + 29 40	5 24 + 30 0		− 45.228	+ .00589		+ .00047	
50	6 24 + 29 50	6 27 + 30 0		− 55.195	+ .00833		+ .00067	
51	7 24 + 30 0	7 21 + 30 0		− 64.890	+ .00309		+ .00085	
52	8 26 + 30 0	8 24 + 30 0		− 64.664	− .00461		+ .00080	
53	9 25 + 30 0	9 27 + 30 0		− 65.569	+ .00831		+ .00057	
54	10 24 + 30 0	10 21 + 30 0		− 62.805	− .00291		+ .00088	
55	11 30 + 30 0	11 33 + 30 0		− 65.045	+ .01171		+ .00065	
56	11 58 + 29 40	12 0 + 30 0		− 44.683	+ .01488		+ .00023	
57	13 4 + 30 0	13 3 + 30 0		− 63.279	− .00204		+ .00040	
58	14 0 + 29 40	13 57 + 30 0		− 43.754	− .00347		+ .00074	
59	15 2 + 29 50	15 0 + 30 0		− 52.854	+ .00454		+ .00077	
60	15 56 + 29 50	15 54 + 30 0		− 53.790	+ .00729		+ .00075	
61	16 59 + 30 0	16 57 + 30 0		− 64.232	+ .00851		+ .00051	
62	17 55 + 30 0	17 51 + 30 0		− 62.802	− .00720		+ .00058	
63	19 0 + 30 0	19 3 + 30 0		− 64.336	+ .00826		+ .00061	
64	19 58 + 30 0	19 57 + 30 0		− 64.922	+ .00155		+ .00039	
65	20 59 + 30 10	21 0 + 30 0		− 71.626	+ .00667		− .00762	
66	21 58 + 30 10	21 54 + 30 0		− 73.429	+ .00158		− .00742	
67	23 1 + 30 10	22 57 + 30 0		− 72.726	− .00323		− .00754	

TABLE III. *Concluded.*

Area. No.	Centre (1900).		Transformation formulae.					
	Sel. Ar.	Bordeaux.						
	h m ° ′	h m ° ′		′	′		′	
68	0 11 + 15 20	0 12 + 15 0	$y_{S.A.} = y_{Bord.}$	− 19.694	− 0.00043	$(x_{Bord.})$	− 0.00483	$(y_{Bord.})$
69	1 15 + 15 10	1 16 + 15 0		− 9.599	+ .00014		− .00488	
70	2 16 + 15 0	2 20 + 15 0		+ 0.498	+ .01254		− 00477	
71	3 11 + 15 0	3 8 + 15 0		+ 0.524	− .00438		− .00476	
72	4 10 + 15 10	4 12 + 15 0		− 9.693	+ .00245		− .00492	
73	5 14 + 15 0	5 16 + 15 0		+ 0.317	+ .00254		− .00473	
74	6 15 + 15 10	6 12 + 15 0		− 9.678	− .00426		− .00469	
75	7 14 + 15 10	7 16 + 15 0		− 9.852	+ .00272		− .00489	
76	8 15 + 15 0	8 12 + 15 0		+ 0.214	− .00283		− .00479	
77	9 10 + 14 30	9 8 + 15 0		+ 30.138	− .00219		− .00485	
78	10 13 + 15 10	10 12 + 15 0		− 9.732	− .00119		− .00500	
79	11 17 + 14 50	11 16 + 15 0		+ 8.364	− .00113		− .00479	
80	12 12 + 15 0	12 12 + 15 0		+ 0.396	− .00001		− .00490	
81	13 12 + 14 40	13 8 + 15 0		+ 20.493	− .00466		− .00493	
82	14 14 + 15 20	14 12 + 15 0		− 19.547	− .00333		− 00493	
83	15 9 + 14 50	15 8 + 15 0		+ 10.352	+ .00048		− .00491	
84	16 12 + 15 0	16 12 + 15 0		+ 0.196	− .00061		− .00492	
85	17 10 + 15 0	17 8 + 15 0		+ 0.306	− .00291		− .00492	
86	18 11 + 15 0	18 12 + 15 0		+ 0.327	− .00015		− .00495	
87	19 11 + 15 0	19 8 + 15 0		+ 0.636	− .00450		− .00478	
88	20 10 + 15 10	20 12 + 15 0		− 9.527	+ .00095		− .00494	
89	21 8 + 15 10	21 8 + 15 0		− 9.757	− .00171		− .00493	
90	22 12 + 15 10	22 12 + 15 0		− 9.747	− .00057		− .00499	
91	23 13 + 15 0	23 16 + 15 0		+ 0.323	+ .00305		− .00502	

6. *Measurement of the plates.*

After the measures for the secondary standards, wherever necessary, are completed the measurement proper of the plate is begun. It is made in zones of constant declination. An example will best illustrate in which way they were limited. Suppose the whole area to be measured to be

$$60' \times 60'$$

and suppose the y of the central star for 1900, computed from the data of the A. G. C. to be $+ 3' 14''$. Then this star is brought on the ocular scale just at the reading $3' 14''$. After that the plate is displaced exactly $30'$ in the y direction (towards the smaller declinations) and is firmly clamped in this position. The button X (see fig. 1) is then turned till the reading of the x scale becomes $30'$ less than that of the central star and observation is begun at the full minute nearest to this reading. From that reading on the button X is slowly and regularly turned (the y reading remaining unchanged) and each star coming to the transit line is bisected. The observer at the ocular scale, DE VRIES, the same man who observed half of the C. P. D., then estimates and calls out the diameter in seconds of arc and the reading of the centre of the star on the ocular scale. A second observer, at the x microscope (Q), estimates and calls out the x reading. All the readings are entered into the ledgers by a third person. The observations are thus continued till exactly $60'$ in x have been covered.

The faintest stars on the plates have by no means diameters equal to zero. On the contrary: from stars of a certain brightness down, the diameter ceases to diminish. For these stars the scale of the estimated diameters is prolonged, not by a real estimate of diameter but by an estimate of the degree of density of the star image, the faintest star on the plate being called — 0, while the upward steps are consecutively called 0, + 0, — 1, 1, + 1, etc. It appears in practice, not only in the present case but also in the C. P. D., that the accidental errors of these estimates are not greater than those for the really measured diameters.

A zone of $10'$ width, together with an overlap in declination of about $30''$ on both sides, is thus completely observed. After that the y frame is unclamped and moved $10'$ north. After reclamping the second zone is observed between the same values of x and so on, till all the zones (in the present case *six*) have been obtained.

A second measure of the plate is then at once begun. It is observed quite independently of the first and the quantities measured are recorded in the ledgers by the side of the first measurement of the same stars. The second measure being completed the two observations are at once compared; stars of diameter — 0, occurring only in one measure are only partly remeasured. Many of them have simply been struck out. No completeness for these stars can be guaranteed. All the rest are revised and if found to be real stars, are again measured. At the same time all marked differences between the two measures in the x, the y or the diameter are looked up and set to rights.

After mature consideration I decided to retain the 10′ zones in the printed catalogue. For the astronomer who uses the catalogue it seems doubtful whether such a publication is preferable, or whether it would be more advantageous to have all the stars of a single plate arranged in a single zone in the order of the x. Both arrangements have their own advantages.

In the making of the catalogue, on the other hand, the advantage of retaining the 10′ zones of the observations is enormous. The labour of rearranging the stars is very considerable; the chances of omission and mistakes increase very greatly; the comparison of the printed sheets with the directly observed numbers, which contributes so powerfully to the detection of all material errors, becomes almost unfeasible etc.

7. *Reduction of the positions.*

By the just described arrangement of the observations the readings of the x scale and of the ocular scale of the observing microscope A represent already approximately the definitive x and, with the difference of some exact multiple of 10′, the definitive y.

The reduction consists in finding and applying the small corrections necessary to convert these readings into definitive x and y expressed, the x in minutes of arc, the y in minutes and seconds. The corrections are found by means of the primary and secondary standards within the area measured.

a. First of all the x-readings are reduced to minutes of arc. For the y such a correction is only necessary in the case of not well rectified ocular scale; it will be referred to under *b.* After this are formed, for the primary and secondary standards *in each zone separately*

standard x — measured x, reduced to minutes;
standard y — measured y.

If these differences show no regular change with x their mean is adopted as *zone correction.* It is applied to all the stars in the zone. If a systematic change with the x is apparent, this change is assumed to be proportional to x and the zone correction is accordingly varied with this coordinate.

Wherever the data seem rather inadequate for finding the change with x, regard was had to the change of x in the contiguous zones.

b. After these corrections were found, the corrected positions of the stars in the overlapping portion of the contiguous zones were compared. In those cases where systematic differences appear, a correction depending on y is derived and applied. Corrections which in extreme cases cannot amount to more than $0'.02$ or $1''$ were neglected.

These corrections *b* are of course the consequence, in the x of a defective rectification of the transit line; in the y of a defective rectification of the scale value of the ocular scale. This latter correction, therefore, takes care of the errors introduced by the curvature of the plates, referred to above.

All the corrections are mentally added and applied to the mean of the two observations. The zone correction — which is computed to a decimal more than is definitively retained — bears a mark which shows whether the rounded off value is too low or too high. Advantage is taken of this mark in those cases where the mean of the two observations contains half a unit of the last decimal.

8. *Formulae and tables for the computation of α and δ from x and y and conversely.*

The question will present itself: to find, from the x and y of the catalogue, the α and δ with all the precision that the accuracy of the observations can yield. In the preparation of the catalogue the converse problem had to be solved. From the α and δ of the standard stars, borrowed from some catalogue of precision, to find the x and the y.

Both these problems are easily solved by the formulae:

$$(1) \qquad \text{tang}\,(\alpha - \text{A}) = \frac{\sin x}{\cos\,(\text{D} + y)}$$

$$(2) \qquad \text{tang}\,\delta = \cos\,(\alpha - \text{A})\,\text{tang}\,(\text{D} + y).$$

These formulae are not rigorous, but the approximation is such that, for all regions from the equator to the pole, within the limits of x and y in the present catalogue, the error will relatively rarely attain $0.''1$.

For the present catalogue therefore the formulae (1) and (2) will be perfectly sufficient in all cases. Simplifications of the computation are indicated below in the footnotes to (5) and (6).

For the standards outside the limits of our areas, which have been used in the determination of the secondary standards (see art. 5), the error is often somewhat more considerable, though never attaining $0.''4$.

For such cases it seems natural to extend the use of the formulae by tabulating the corrections to be applied in order to convert the approximate values into true ones.

In the hope that these formulae, which are the simplest I have yet seen, may be found useful, in particular in the case of the „Carte du Ciel" catalogue, I will give the tables the extent required by this latter work. For still larger areas our formulae will make a more extensive tabulation a very easy matter.

According to Trépied (I quote the formulae from Dyson's paper Monthly Notices vol. 64 (1904) p. 648) we have *rigorously*:

$$\text{tang}\,(\alpha - \text{A}) = \frac{x}{\cos \text{D} - y \sin \text{D}} \tag{3}$$

$$\text{tang}\ \delta = \cos\,(\alpha - \text{A})\,\frac{\sin \text{D} + y \cos \text{D}}{\cos \text{D} - y \sin \text{D}} \tag{4}$$

where x and y are expressed in parts of the radius. In the computation of α and δ from x and y we might of course begin by calculating approximate α and δ by the formulae (1) and (2) and to these might then be applied corrections such that the corrected values would satisfy the rigorous formulae (3) and (4). A far better way, however, consists in applying corrections, *not* to α and δ but to x and y, the advantage being that in this way only we get corrections which are independent of D. Let ε and θ be the corrections to be applied to x and y, so that the formulae 1)

$$\text{tang}\,(\alpha - \text{A}) = \frac{\sin\,(x + \varepsilon)}{\cos\,(\text{D} + y + \theta)} \tag{5}$$

$$\text{tang}\ \delta = \cos\,(\alpha - \text{A})\ \text{tang}\,(\text{D} + y + \theta) \tag{6}$$

will agree with (3) and (4).

Expanding these forms into series according to powers of x, y, ε, θ we easily get:

$$\theta = -\tfrac{1}{3}y^3 + \tfrac{1}{5}y^5 + 6^{\text{th}}\ \text{order terms} \tag{7}$$

$$\varepsilon = \tfrac{1}{6}x^3 - \tfrac{1}{2}xy^2 + \tfrac{3}{8}xy^4 + \tfrac{3}{40}x^5 - \tfrac{1}{4}x^3y^2 + 7^{\text{th}}\ \text{order terms} \tag{8}$$

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1) In the computation according to these formulae, some further simplifications may easily be introduced in most cases.

a. In (5). As $\alpha - \text{A}$ and $x + \varepsilon$ are relatively small quantities (except near the pole where the first may become considerable) the proportion $\dfrac{\text{tang}\,(\alpha - \text{A})}{\text{sing}\,(x + \varepsilon)}$ must differ but little from $\dfrac{\alpha - \text{A}}{x + \varepsilon}$. By taking advantage of this we may avoid the somewhat troublesome computation of the log. sin and log. tang of the small angles. For this purpose, instead of (5) put:

$$\log\,(\alpha - \text{A}) = \log\,(x + \varepsilon) - \log \cos\,(\text{D} + y + \theta) + \lambda \tag{5*}$$

everything expressed in minutes of arc.

x and y being expressed in parts of the radius. As the D does not appear in these formulae they hold, up to terms of the 6th and 7th orders, for the whole of the sky. *One* table for θ with the single argument y and *one* table for ε,

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Comparison of this formula with (5) easily leads to the determination of λ. In the tabulation of this quantity, ε and θ are absolutely to be neglected. I find:

λ (in the 6th decimal)

$D+y$ \ x	0′	± 10′	± 20′	± 30′	± 40′	± 50′	± 60′
0°	0	− 2	− 7	− 17	− 29	− 46	− 66
± 10	0	− 2	− 7	− 17	− 30	− 47	− 68
± 20	0	− 2	− 8	− 18	− 32	− 50	− 72
± 30	0	− 2	− 9	− 20	− 36	− 56	− 81
± 40	0	− 3	− 11	− 24	− 43	− 67	− 97
± 50	0	− 4	− 14	− 32	− 57	− 89	− 129

For the „Carte du Ciel" and declinations below 50°, there will be no objection to taking in the vertical argument D instead of $D+y$. Doing this, the correction λ can be tabulated for each zone of plates of the same declination in a little table with the *single* argument x. If we make such a table *ten* times more extensive than the above, the correction λ is taken out at first sight. For declinations greater than 50° or 60°, the convenience of this proceeding becomes rapidly smaller and it becomes perhaps preferable to stick to formula (5).

b. In (6). Taking logarithms we have:

$$\log\text{tang}\,\delta = \log\cos(\alpha - A) + \log\text{tang}\,(D + y + \theta).$$

Let

$$\log\cos(\alpha - A) = -\nu \qquad \text{(in the 7th decimal);}$$

let further, in the neighbourhood of $D+y$, be

μ = increment, also in the 7th decimal, of log tang $(D+y)$ for 10″ increase of the argument. Then evidently

$$\delta = D + y + \theta - \frac{\nu}{} \times 10''. \tag{6*}$$

Where, in the higher declinations, the precision of this formula is not deemed sufficient we may take for μ the increment for 100″ (instead of 10″). The multiplier 10″ will then, of course, at the same time be changed to 100. As there will be no or hardly any interpolation to be done, there can be no objection against the use of a 7 decimal table.

In the computation of (5) too, little or no interpolation will be required if, in finding log cos $(D + y + \theta)$ we round off the argument at the nearest second of arc. It is only in very high declinations that this will not be deemed sufficiently correct.

My own experience is that the formulae (5*) and (6*) make the whole of the computation very convenient indeed.

For zones of constant D further tabulation for the reduction of numerous stars will readily present itself.

with the double argument x and y will, therefore, be sufficient from equator to pole. The neglected terms are so exceedingly small that even if we have plates

$$10^\circ \times 10^\circ.$$

we will still be able to compute the α and δ, with an accuracy of 0″.01 with the same ease. In fact the 5th order terms, *which have been retained* in (7) and (8) would in this case only amount to

$$0''.21$$

at the maximum. The neglected terms will in all probability not reach 0″.01. For the „Carte du Ciel" plates, where x and y do not exceed 60′ or 65′ the 5th order terms may even be neglected, so that, expressing x, y, ε, θ in minutes of arc, we will have

$$\theta = -\,0'.000\,000\,028\,2\,y^3 \tag{9}$$

$$\varepsilon = 0'.000\,000\,014\,1\,(x^3 - 3xy^2). \tag{10}$$

For the extreme case of $x = y = 60'$ we get, both for θ and ε the maximum value — 0″.365.

The following tables show the values of θ and ε accurate to the *fourth* decimal of the minute of arc. As in the present catalogue the coordinates have been given only to the *second* decimal and in the „Carte du Ciel" catalogue to the *third* decimal, the smallness of these corrections will be evident.

Table IV. ε.

y \ x	± 60′	± 50′	± 40′	± 30′	± 20′	± 10′	0′
+ 60′	— 0′.0061	— 0′.0033	— 0′.0010	+ 0′.0008	+ 0′.0020	+ 0′.0028	+ 0′.0030
+ 50	— 59	— 35	— 16	— 01	+ 09	+ 16	+ 18
+ 40	— 52	— 33	— 18	— 06	+ 02	+ 07	+ 09
+ 30	— 42	— 28	— 16	— 08	— 01	+ 03	+ 04
+ 20	— 29	— 20	— 12	— 06	— 02	00	+ 01
+ 10	— 15	— 10	— 07	— 04	— 02	00	00
0	00	00	00	00	00	00	00
— 10	+ 15	+ 10	+ 07	+ 04	+ 02	00	00
— 20	+ 29	+ 20	+ 12	+ 06	+ 02	00	— 01
— 30	+ 42	+ 28	+ 16	+ 08	+ 01	— 03	— 04
— 40	+ 52	+ 33	+ 18	+ 06	— 02	— 07	— 09
— 50	+ 59	+ 35	+ 16	+ 01	— 09	— 16	— 18
— 60	+ 61	+ 33	+ 10	— 08	— 20	— 28	— 30

Table V. θ.

y	θ'	θ''
+ 60′	— 0′.0061	— 0″.37
+ 50	— 35	— .21
+ 40	— 18	— .11
+ 30	— 08	— .05
+ 20	— 02	— .01
+ 10	00	.00
0	00	.00
— 10	00	.00
— 20	+ 02	+ .01
— 30	+ 08	+ .05
— 40	+ 18	+ .11
— 50	+ 35	+ .21
— 60	+ 61	+ .37

For use in the present catalogue, where the y are given in minutes and seconds of arc, I have added the value θ'' of θ expressed in seconds.

With the aid of these tables the computation of the *true* values of α and δ is not appreciably more laborious than the computation of the *approximate* values by (1) and (2).

For the converse problem: to find the x and y from the α and δ, we will, of course, begin by computing $D + y + \theta$ by (6). After this $x + \varepsilon$, consequently x will be found by (5). Simplifications of the computation will be evident from the footnote to the formulae (5) and (6).

9. *The approximate α and δ in the catalogue.*

For the area No. 1, for which $D = +89^\circ\, 0'$, the α and δ for each star have been computed by (1) and (2). For all the other areas further simplification is possible. In fact the α were really computed by

$$\alpha - A = 4\, x \sec \delta \tag{11}$$

(x expressed in minutes of arc, $\alpha - A$ in seconds of time) where for δ the mean declination, or rather $D + y$, was taken of the zone (of 10′ width) in which the star occurs. For one of our plates (area 5) the extreme error of this formula amounts to $0''.8$ in arc of the great circle. This is immaterial in a case like the present where, for declinations of 60° and lower, the α has been given only to the nearest second of time; for higher declinations only to the nearest $0.^{m}1$.

For the *declination* of all the stars (always area 1 excepted) has been taken in the Catalogue

$$\delta = D + y. \tag{12}$$

Comparing this approximate value with the value furnished by (2) we get the following corrections which have to be applied to the catalogue values in cases where the approximation (12) is not deemed sufficient. The application of the correction increases the accuracy to about ± 1″.

TABLE VI. $\delta - (D + y)$

D x	75°	60°	45°	30°	15°	0°
′	″	″	″	″	″	″
± 40	— 52	— 24	— 14	— 8	— 4	0
± 30	— 29	— 13	— 8	— 5	— 2	0
± 20	— 13	— 6	— 3	— 2	— 1	0
± 10	— 3	— 2	— 1	— 1	0	0
0	0	0	0	0	0	0

10. *Reduction of the estimated diameters to photographic magnitudes in the international system.*

This reduction rests entirely on the photographic magnitude standards determined at the Harvard College Observatory. Other sources have only been used in a few cases in order to clear up accidental irregularities in the curves constructed from these standards and for the derivation of the constant for the prism and the difference in magnitude of the long and short exposure images (see below). The system of the Harvard standards has, however, always been strictly adhered to, both in regard to *scale* and to *zero point.*

The main difficulty in obtaining curves for the transformation of the diameters into magnitudes is met in the case of the *very bright* and that of the *very faint* stars.

The *very bright* stars show very large and ill defined images for which it is impossible to estimate the diameter with great accuracy. For the *very faint* stars standards are wanting, owing to the fact that these were obtained from plates of much shorter exposure than the plates, which served for the catalogue.

In order to meet these difficulties as much as possible use has been made of the secondary images. As already mentioned (art. 2) there are two of such images for each star on most of the plates of this first volume: a prismatic companion and a companion obtained by a separate short exposure. These have been observed just as the main images of all the stars. For the bright and the faint stars the use made of these additional images has been different.

a. For the *bright stars*, we have simply compared the secondary images directly with the Harvard standards and we have thus been enabled to draw a separate magnitude curve both for the short exposures and for the prismatic companions. We thus got in all three curves for the magnitudes. The simple mean of the three determinations thus obtained was finally adopted. In the case of stars very near the limits of the area to be measured it may happen that one or both of the secondary images fall outside these limits and are therefore missing in the measures. The consequence must be that in such cases the definitive magnitude is somewhat less reliable.

In the case of the Bruce plates (16 of which occur in this first volume) the prismatic companion is mostly wanting, so that, for 14 out of 16 cases, two curves only could be drawn. In these cases different weights, depending on quality and size of image, have usually been assigned to the two determinations.

All this makes it impossible to compute back the measured diameters from the magnitudes given in the catalogue for the very bright stars, without very lengthy tabulation and explanation. It is for this reason that the table for the conversion of diameters to magnitudes taken from the curves and given below as table XII, does not extend beyond diameter 13.0 or 14.0. Even this value usually exceeds somewhat the diameter from which on the secondary images have contributed and which is shown in the last line of the table.

For the *very* brightest stars the magnitude thus determined must still be more uncertain than that of the rest of the stars. Fortunately these objects are, of course, not numerous and a good fraction of them are among the standards. For these latter the standard magnitude has been entered in the catalogue marked with an asterisk (*). Some others had to be taken from other sources. These have all been referred to in the footnotes to the catalogue.

b. For the *faint stars.*

The secondary images were used in this case exclusively for finding out m_0

that is the magnitude corresponding to what in the estimates was called diameter = 0.

This derivation of m_0 was made possible by the extreme courtesy of Professor SEARES, who provided us in advance with the standards for a certain number of our regions, obtained at the 60 inch reflector at Mount Wilson. For all of these regions the Seares magnitudes had still to be corrected by a constant, which however, for our purpose — the lengthening of our scale strictly in the system of the Harvard standards — is of no importance.

Wherever possible, three different ways were followed in the derivation of m_0.

1st. The difference was determined of the m_0 with the magnitudes corresponding to diameters 4.0, 3.0, 2.0, 1.0. From 11 regions, for which the Mount Wilson standards furnish satisfactory data, was found

TABLE VII.

	Metcalf plates	Bruce plates
diam.	magnit. =	magnit. =
	m	m
4.0	m_0 — 2.00	m_0 — 1.28
3.0	m_0 — 1.56	m_0 — 0.95
2.0	m_0 — 1.11	m_0 — 0.63
1.0	m_0 — 0.59	m_0 — 0.32

This table will give m_0 as soon as, from the Harvard standards, we know the magnitude of stars showing on the plates a diameter between 1.0 and 4.0.

2nd. The second way followed makes use of the short exposures. As may be seen from table II the times of exposure are, in the case of the Metcalf plates generally $60^{\text{min.}}$ and $1^{\text{min.}}$, in that of the Bruce plates $120^{\text{min.}}$ and $2^{\text{min.}}$.

For 11 regions the following results for the Metcalf plates were obtained by the aid of the standards of Seares.

d = diameter short exposure

S = difference in magnitude short exposure and long exposure.

They are arranged in the order of the d in order that any change of the constant S with the diameter, if it exists, may show itself. Such a change is by no means improbable and it would for this reason be unsafe to rely on a constant derived from stars for which the diameter of the short exposure would differ very materially from zero.

TABLE VIII. S_m METCALF PLATES.

Area No.	δ	d	S_m	Numb. of Stars.
12	$+60^\circ$	-0.22	$3^m.63$ ($\frac{1}{2}$)	5
5	$+75$	$+0.16$	3.89	19
11	$+60$	$+0.22$	4.04	21
1	$+89$	$+0.28$	3.86	11
34	$+45$	$+0.37$	4.37	12
2	$+75$	$+0.38$	3.32	20
14	$+60$	$+0.45$	3.98	9
54	$+30$	$+0.60$	3.73	24
35	$+45$	$+0.75$	4.03	20
15	$+60$	$+1.24$	4.12	28
32	$+45$	$+1.33$	4.14	30
	Mean	0.54	3.94	199

No appreciable change with the value of *d* is indicated and the value

$$3^m.94$$

valid for diameters of the short exposure below 1.5 is considered as the best result obtainable. As a matter of fact another value viz.

$$S_m = 4^m.03 \quad \text{(Metcalf plates)} \tag{13}$$

has been used. It was already derived and used before our data were increased by fresh Mount Wilson standards. As a third only of the difference enters into our results it has not been deemed necessary to repeat the computation.

For the BRUCE plates Mount Wilson standards were available for 8 regions. A change of the value of S_b with the diameter was found to exist as will be seen from the following numbers found respectively for the diameter 0.0 and 2.5 of the short exposures.

TABLE IX. S_b. BRUCE PLATES.

Area No.	S_b $d = 0$	S_b $d = 2.5$	Weight
101	$3^m.93$	$4^m.14$	2
102	3.50	3.84	2
103	3.00	3.64	1
104	3.60	4.38	1
105	3.22	4.08	1
106	3.54	4.69	$^3/_4$
107	3.50	3.99	1
110	3.50	3.75	2
Mean	3.52	4.00	

The number of stars from which these values were obtained is considerable. The weights were assigned greatest where the change with diameter was smallest.

By the aid of the constant S we find m_0 in the following way. Having, in a first approximation, drawn that part of the magnitude curve which is well in reach of the Harvard standards, the magnitude is determined of any star for which the diameter of the short exposure image has been estimated *zero*. Then

$$m_0 = \text{magn. of star} + 4^{m}.03 \quad \text{(Metcalf)}$$
$$= \quad „ \quad + 3.52 \quad \text{(Bruce).}$$

Generally a good number of stars was used for which the diameter of the secondary image differs slightly from zero. The small reduction of the mean to *exactly* diameter *zero* was then made by the aid of table VII.

In the case of the Bruce plates we have also determined the magnitude corresponding with the diameter 2.5, using for S_b the value 4.00 (see table IX).

3^d. *Difference P of magnitude main image and prismatic companion.* This difference was also determined for the Metcalf plates by the aid of the Mount Wilson standards; 10 areas gave the following results, arranged in the order of the p. c. (= diameter prismatic companions).

TABLE X. P. METCALF PLATES.

Area No.	p. c.	P	Numb. of stars
		m	
12	− 0.20	3.76 (½)	3
5	+ 0.13	4.04	13
2	+ 0.14	4.04	11
15	+ 0.15	4.56	23
34	+ 0.27	4.42	12
11	+ 0.29	4.12	15
14	+ 0.29	4.28	6
54	+ 0.34	4.18	14
32	+ 0.35	4.20	19
1	+ 1.05	3.70	6
Mean	0.31	4.15	122

There is no trace of a change with the diameter. Instead of the mean value 4.15, a provisional value

$$P = 4^{m}.12 \qquad (14)$$

has been really used, which had been found from somewhat less extensive data. The error is small and in the opposite direction of that of the value (13) of S, so that our results are almost wholly unaffected. — For a few plates (Areas Nos. 13, 26, 27, 56, 58, 76, 77, 79, 80, 81, 100) a slightly different constant *viz.* $4^m.25$ has been applied. The cause was that there seemed to be reason to suppose that in the case of these areas another prism had been used. It turned out later that this has not been the case. We have not thought it worth while to repeat the reductions especially on the ground that the constant had been derived almost exclusively by the data of these plates themselves.

By the aid of the value (14) of P the m_0 was found just as in the case of the short exposures.

The three methods are all to be considered more or less as a make shift. The gradation of the individual plates must not be absolutely the same. The differences of the whole of the magnitude curves for the several plates and some of the divergences in tables VIII, IX and X prove this to be so. As a consequence the difference in magnitude between the main and the short exposure images must not be wholly the same, as tacitly assumed in what precedes. The same holds for the first method and there is reason to believe that in the third method too the difference is not absolutely constant. We may expect, however, that in general the differences must not be considerable, in cases like the present, where the plates, the circumstances of the development etc. may be assumed to have varied very little. With a few exceptions the agreement of the three values obtained for m_0 is very satisfactory and we may consider this as proof *à posteriori* of their approximate correctness. Their *mean* therefore, which was usually adopted, deserves considerable confidence.

In the case of the Bruce plates there is only a prismatic companion in a few cases. These were disregarded because no reliable determination of the prism constant could be obtained from the available data. The two determinations of m_0 were here combined with weights depending on the circumstances.

After these preliminaries the drawing of the definitive curve for the reduction of the estimated diameters to magnitudes offers no further difficulty. Only the magnitudes corresponding to what in the estimate of the diameters was called — 0.1, — 0.2, — 0.3 remains to be determined. It is much to be feared that for these extremes of faintness the curve will not be a quite smooth prolongation of the curve for the brighter stars and I resolved to assume that the difference in magnitude of the stars estimated — 0.3 and those estimated 0.0, is the same on all the plates. Similarly for the difference in magnitude of the stars estimated — 0.2 and 0.0, — 0.1 and 0.0. These are shown in the following table:

TABLE XI.

	Metcalf	Bruce
	m	m
mag. corresp. to diam. — 0.1 =	$m_0 + 0.06$	$m_0 + 0.08$
„ „ „ „ — 0.2 =	$m_0 + .15$	$m_0 + .16$
„ „ „ „ — 0.3 =	$m_0 + .34$	$m_0 + .25$

These values have been obtained *partly* by counting the numbers of stars of diameter 0.0, — 0.1, — 0.2, — 0.3, and from these numbers deriving the corresponding difference in magnitude, by the aid of Gron. Publ. No. 27 table IV, *partly* by a direct comparison with Seares' standards.

This way of obtaining the extreme magnitudes and the fact that these stars doubtlessly have not been quite completely observed, make it undesirable to include the number of these stars (diam. — 0.1, — 0.2, — 0.3) in statistical investigations.

The values in the following tables were read off from the magnitude curves. For reasons already given they only go to diameter 13.0 or 14.0, though the curves extend generally much further. The D in the last line indicates the diameter from which on the secondary images have contributed to the determination of the magnitudes of the catalogue. The Bruce plates have been indicated by the addition of *Bru* in the heading. All the other plates are Metcalf plates.

TABLE XII. REDUCTION OF DIAMETERS TO MAGNITUDES.

Area No. Diam.	1	2	3	4	5	6	7	8	9	10
	m	m	m	m	m	m	m	m	m	m
— 0.3	15.94	16.04	15.30	15.38	15.17	15.55	16.32	15.27	16.58	15.91
— 0.2	15.75	15.85	15.11	15.19	14.98	15.36	16.13	15.08	16.39	15.72
— 0.1	15.66	15.76	15.02	15.10	14.89	15.27	16.04	14.99	16.30	15.63
0.0	15.60	15.70	14.96	15.04	14.83	15.21	15.98	14.93	16.24	15.57
1.0	14.91^{69}	15.27^{43}	14.51^{45}	14.64^{40}	14.33^{50}	14.66^{55}	15.25^{73}	14.23^{70}	15.70^{54}	15.10^{47}
2.0	14.40^{51}	14.85^{42}	14.09^{42}	14.24^{40}	13.89^{44}	14.16^{50}	14.66^{59}	13.70^{53}	15.21^{49}	14.66^{44}
3.0	13.96^{44}	14.43^{42}	13.70^{39}	13.84^{40}	13.48^{41}	13.70^{46}	14.13^{53}	13.24^{46}	14.76^{45}	14.24^{42}
4.0	13.59^{37}	14.01^{42}	13.34^{36}	13.44^{40}	13.08^{40}	13.26^{44}	13.66^{47}	12.82^{42}	14.34^{42}	13.84^{40}
5.0	13.22^{37}	13.59^{42}	13.00^{34}	13.04^{40}	12.69^{39}	12.84^{42}	13.23^{43}	12.43^{39}	13.95^{39}	13.45^{39}
6.0	12.86^{36}	13.15^{44}	12.67^{33}	12.65^{39}	12.31^{38}	12.44^{40}	12.82^{41}	12.05^{38}	13.58^{37}	13.06^{39}
7.0	12.50^{36}	12.71^{44}	12.35^{32}	12.25^{40}	11.94^{37}	12.05^{39}	12.41^{41}	11.67^{38}	13.22^{36}	12.67^{39}
8.0	12.15^{35}	12.28^{43}	12.04^{31}	11.86^{39}	11.59^{35}	11.67^{38}	12.01^{40}	11.29^{38}	12.88^{34}	12.28^{39}
9.0	11.80^{35}	11.86^{42}	11.73^{31}	11.48^{38}	11.24^{35}	11.30^{37}	11.62^{39}	10.94^{35}	12.55^{33}	11.89^{39}
10.0	11.47^{33}	11.46^{40}	11.42^{31}	11.10^{38}	10.90^{34}	10.94^{36}	11.26^{36}	10.57^{37}	12.22^{33}	11.50^{39}
11.0	11.15^{32}	11.08^{38}	11.12^{30}	10.75^{35}	10.55^{34}	10.60^{34}	10.91^{35}	10.23^{34}	11.92^{30}	11.08^{42}
12.0	10.85^{30}	10.70^{38}	10.81^{31}	10.40^{35}	10.21^{34}	10.25^{35}	10.57^{34}	9.88^{35}	11.63^{29}	10.68^{40}
13.0	10.55^{30}	10.30^{40}	10.51^{30}	10.06^{34}	9.88^{33}	9.92^{33}	10.25^{32}	9.57^{31}	11.36^{27}	10.33^{35}
D	11.5	11.0	10.0	10.5	10.0	9.5	8.5	8.0	10.5	10.0

TABLE XII. *Continued.*

Area No. Diam.	11	12	13	14	15	16	17	18	19	20
	m	m	m	m	m	m	m	m	m	m
— 0.3	15.96	15.27	15.69	15.46	16.32	15.38	15.47	16.80	16.18	15.87
— 0.2	15.77	15.08	15.50	15.27	16.13	15.19	15.28	16.61	15.99	15.68
— 0.1	15.68	14.99	15.41	15.18	16.04	15.10	15.19	16.52	15.90	15.59
0.0	15.62	14.93	15.35	15.12	15.98	15.04	15.13	16.46	15.84	15.53
1.0	15.00^{62}	14.46^{47}	15.00^{35}	14.46^{66}	15.35^{63}	14.57^{47}	14.50^{63}	15.91^{55}	15.04^{80}	14.85^{68}
2.0	14.45^{55}	14.03^{43}	14.65^{35}	13.92^{54}	14.78^{57}	14.12^{45}	14.00^{50}	15.45^{46}	14.50^{54}	14.27^{58}
3.0	13.94^{51}	13.63^{40}	14.31^{34}	13.44^{48}	14.26^{52}	13.69^{43}	13.57^{43}	15.02^{43}	14.06^{44}	13.76^{51}
4.0	13.47^{47}	13.27^{36}	13.97^{34}	13.00^{44}	13.78^{48}	13.29^{40}	13.15^{42}	14.62^{40}	13.70^{36}	13.30^{46}
5.0	13.02^{45}	12.93^{34}	13.62^{35}	12.59^{41}	13.33^{45}	12.92^{37}	12.75^{40}	14.24^{38}	13.37^{33}	12.88^{42}
6.0	12.59^{43}	12.61^{32}	13.28^{34}	12.21^{38}	12.91^{42}	12.55^{37}	12.37^{38}	13.87^{37}	13.04^{33}	12.50^{38}
7.0	12.18^{41}	12.29^{32}	12.94^{34}	11.84^{37}	12.51^{40}	12.20^{35}	12.00^{37}	13.50^{37}	12.71^{33}	12.14^{36}
8.0	11.80^{38}	11.96^{33}	12.58^{36}	11.48^{36}	12.13^{38}	11.86^{34}	11.65^{35}	13.12^{38}	12.38^{33}	11.80^{34}
9.0	11.44^{36}	11.64^{32}	12.20^{38}	11.13^{35}	11.78^{35}	11.54^{32}	11.32^{33}	12.75^{37}	12.05^{33}	11.47^{33}
10.0	11.09^{35}	11.32^{32}	11.79^{41}	10.79^{34}	11.44^{34}	11.22^{32}	11.01^{31}	12.38^{37}	11.72^{33}	11.14^{33}
11.0	10.75^{34}	11.00^{32}	11.35^{44}	10.46^{33}	11.12^{32}	10.90^{32}	10.70^{31}	12.01^{37}	11.39^{33}	10.84^{30}
12.0	10.43^{32}	10.68^{32}	10.87^{48}	10.14^{32}	10.83^{29}	10.60^{30}	10.43^{27}	11.65^{36}	11.06^{33}	10.54^{30}
13.0	10.14^{29}	10.36^{32}	10.36^{51}	9.83^{31}	10.57^{26}	10.33^{27}	10.16^{27}	11.28^{37}	10.73^{33}	10.27^{27}
D	9.5	13.0	11.5	12.5	12.0	11.5	11.0	11.0	11.0	10.0

Table XII. *Continued.*

Area No. / Diam.	21	22	23	24	25	26	27	28	29	30
	m	m	m	m	m	m	m	m	m	m
— 0.3	16.16	16.62	16.02	16.08	15.88	15.55	15.30	15.63	15.74	16.16
— 0.2	15.97	16.43	15.83	15.89	15.69	15.36	15.11	15.44	15.55	15.97
— 0.1	15.88	16.34	15.74	15.80	15.60	15.27	15.02	15.35	15.46	15.88
0.0	15.82	16.28	15.68$_{66}$	15.74$_{72}$	15.54	15.21	14.96	15.29$_{61}$	15.40	15.82
1.0	15.31^{51}	15.87^{41}	15.02$_{61}$	15.02	15.14^{40}	14.80^{41}	14.68^{28}	14.68	14.91^{49}	15.36^{46}
2.0	14.84^{47}	15.45^{42}	14.41	14.49^{53}	14.73^{41}	14.38^{42}	14.36^{32}	14.20^{48}	14.45^{46}	14.92^{42}
3.0	14.41^{43}	15 03^{42}	13 84^{57}	14.03^{46}	14.32^{41}	13.95^{43}	14.00^{36}	13.78^{42}	14.00^{45}	14.50^{42}
4.0	14.00^{41}	14.62^{41}	13.31^{53}	13.60^{43}	13.91^{41}	13.52^{43}	13.60^{40}	13.40^{38}	13.57^{43}	14.09^{41}
5.0	13.61^{39}	14.22^{40}	12.82^{49}	13.18^{42}	13.50^{41}	13.09^{43}	13.17^{43}	13.04^{36}	13.15^{42}	13.69^{40}
6.0	13 24^{37}	13.84^{38}	12.37^{45}	12.77^{41}	13.08^{42}	12.67^{42}	12 72^{45}	12.70^{34}	12.73^{42}	13.29^{40}
7.0	12.88^{36}	13.48^{36}	11.97^{40}	12.38^{39}	12.67^{41}	12.25^{42}	12.27^{45}	12.38^{32}	12.32^{41}	12.88^{41}
8.0	12.54^{34}	13.15^{33}	11.61^{36}	12.01^{37}	12.25^{42}	11.82^{43}	11.80^{47}	12.07^{31}	11.91^{41}	12.47^{41}
9.0	12.21^{33}	12.84^{31}	11.31^{30}	11.67^{34}	11.82^{43}	11.38^{44}	11.30^{50}	11.77^{30}	11.51^{40}	12.07^{40}
10.0	11.88^{33}	12.54^{30}	11.05^{26}	11.35^{32}	11.40^{42}	10.93^{45}	10.80^{50}	11.48^{29}	11.12^{39}	11.69^{38}
11.0	11.55^{33}	12.25^{29}	10.81^{24}	11.04^{31}	10.98^{42}	10.48^{45}	10.28^{52}	11.23^{25}	10.75^{37}	11.33^{36}
12.0	11.25^{30}	11.97^{28}	10.59^{22}	10.75^{29}	10.56^{42}	10.04^{44}	9.73$^{55}_{63}$	10.96^{27}	10.45^{30}	11.00^{33}
13.0	10.95^{30}	11.70^{27}	10.39^{20}	10.46^{29}	10.17^{39}	9.60^{44}	9.10	10.72^{24}	10.14^{31}	10.70^{30}
D	11.0	12.0	8.0	11.0	10.5	10.5	9.5	10.0	11.0	13.0

Table XII. *Continued.*

Area No. / Diam.	31	32	33	34	35	36	37	38	39	40
	m	m	m	m	m	m	m	m	m	m
— 0.3	15.78	16.77	16.11	16.00	15.86	15.62	15.45	15.84	15.92	15.76
— 0.2	15.59	16.58	15.92	15.81	15.67	15.43	15.26	15.65	15.73	15.57
— 0.1	15.50	16.49	15.83	15.72	15.58	15.34	15.17	15.56	15.64	15.48
0.0	15.44	16.43$_{68}$	15.77$_{63}$	15.66	15.52	15.28	15.11$_{64}$	15.50$_{68}$	15.58	15.42
1.0	14.90^{54}	15.75$_{60}$	15.14	15.14^{52}	15.03^{49}	14.88^{40}	14 47	14 82	15.03^{55}	15.02^{40}
2.0	14.34^{56}	15.15	14.62^{52}	14.64^{50}	14.57^{46}	14.48^{40}	13.97^{50}	14.28^{54}	14.55^{48}	14.64^{38}
3.0	13.78^{56}	14.62^{53}	14.15^{47}	14.15^{49}	14.13^{44}	14.07^{41}	13.52^{45}	13.84^{44}	14.10^{45}	14.27^{37}
4.0	13.23^{55}	14.15^{47}	13.71^{44}	13.66^{49}	13.71^{42}	13.65^{42}	13.11^{41}	13.46^{38}	13.67^{43}	13.90^{37}
5.0	12.69^{54}	13.72^{43}	13.30^{41}	13.18^{48}	13.29^{42}	13.22^{43}	12.74^{37}	13.12^{34}	13.26^{41}	13.55^{35}
6.0	12.15^{54}	13.31^{41}	12.91^{39}	12.72^{46}	12.88^{41}	12.78^{44}	12.40^{34}	12.80^{32}	12.87^{39}	13.21^{34}
7 0	11.63^{52}	12.92^{39}	12.54^{37}	12.29^{43}	12.49^{39}	12.34^{44}	12.07^{33}	12.50^{30}	12.50^{37}	12.89^{32}
8.0	11.13^{50}	12.54^{38}	12 19^{35}	11.89^{40}	12.11^{38}	11.90^{44}	11.74^{33}	12.22^{28}	12.14^{36}	12.56^{33}
9.0	10.65^{48}	12.18^{36}	11.85^{34}	11.51^{38}	11.72^{39}	11.45^{45}	11.42^{32}	11.95^{27}	11.80^{34}	12.24^{32}
10.0	10.20^{45}	11.83^{35}	11.52^{33}	11.15^{36}	11.33^{39}	11.01^{44}	11.11^{31}	11.68^{27}	11.47^{33}	11.94^{30}
11.0	9.79^{41}	11.51^{32}	11.24^{28}	10.81^{34}	10.95^{38}	10.56^{44}	10.81^{30}	11.41^{27}	11.14^{33}	11.65^{29}
12.0	9.40^{39}	11.21^{30}	10.98^{26}	10.49^{32}	10.57^{38}	10 11^{45}	10 51^{30}	11.15^{26}	10.83^{31}	11.37^{28}
13.0	9.03^{37}	10.93^{28}	10.72^{26}	10.20^{29}	10 24^{33}	9 66^{45}	10.23^{28}	10.90^{25}	10.52^{31}	11.10^{27}
14.0		10.67^{26}								
D	10.0	14.5	10.0	12.0	11.5	9.5	9.5	12.0	9.5	11.0

Table XII. *Continued.*

Area No. / Diam.	41	42	43	44	45	46	47	48	49	50
	m	m	m	m	m	m	m	m	m	m
— 0.3	15.58	16.04	15.47	15.90	15.66	15.96	16.49	15.98	15.93	15.73
— 0.2	15.39	15.85	15.28	15.71	15.47	15.77	16.30	15.79	15.74	15.54
— 0.1	15.30	15.76	15.19	15.62	15.38	15.68	16.21	15.70	15.65	15.45
0.0	15.24	15.70	15.13	15.56	15.32	15.62	16.15	15.64	15.59	15.39
1.0	14.51^{73}	15.29^{41}	14.68^{45}	14.69^{87}	14.73^{59}	15.14^{48}	15.65^{50}	15.25^{39}	15.14^{45}	14.75^{64}
2.0	13.96^{55}	14.89^{40}	14.23^{45}	14.07^{62}	14.18^{55}	14.69^{45}	15.17^{48}	14.84^{41}	14.69^{45}	14.21^{54}
3.0	13.50^{46}	14.51^{38}	13.80^{43}	13.54^{53}	13.66^{52}	14.26^{43}	14.69^{48}	14.42^{42}	14.25^{44}	13.73^{48}
4.0	13.08^{42}	14.15^{36}	13.38^{42}	13.08^{46}	13.18^{48}	13.86^{40}	14.20^{49}	14.00^{42}	13.81^{44}	13.29^{44}
5.0	12.68^{40}	13.81^{34}	12.97^{41}	12.67^{41}	12.73^{45}	13.48^{38}	13.72^{48}	13.59^{41}	13.38^{43}	12.89^{40}
6.0	12.31^{37}	13.47^{34}	12.56^{41}	12.30^{37}	12.31^{42}	13.12^{36}	13.24^{48}	13.18^{41}	12.96^{42}	12.52^{37}
7.0	11.96^{35}	13.13^{34}	12.17^{39}	11.96^{34}	11.93^{38}	12.78^{34}	12.77^{47}	12.76^{42}	12.55^{41}	12.17^{35}
8.0	11.62^{34}	12.80^{33}	11.80^{37}	11.65^{31}	11.59^{34}	12.45^{33}	12.32^{45}	12.35^{41}	12.15^{40}	11.84^{33}
9.0	11.28^{34}	12.48^{32}	11.44^{36}	11.31^{34}	11.29^{30}	12.13^{32}	11.88^{44}	11.95^{40}	11.76^{39}	11.53^{31}
10.0	10.95^{33}	12.15^{33}	11.10^{34}	10.98^{33}	11.04^{25}	11.82^{31}	11.48^{40}	11.54^{41}	11.38^{38}	11.23^{30}
11.0	10.63^{32}	11.85^{30}	10.78^{32}	10.64^{34}	10.78^{26}	11.52^{30}	11.12^{36}	11.14^{40}	11.00^{38}	10.96^{27}
12.0	10.34^{29}	11.54^{31}	10.48^{30}	10.29^{35}	10.51^{27}	11.24^{28}	10.79^{33}	10.83^{31}	10.63^{37}	10.70^{26}
13.0	10.04^{30}	11.24^{30}	10.18^{30}	9.94^{35}	10.27^{24}	10.97^{27}	10.49^{30}	10.54^{29}	10.26^{37}	10.46^{24}
D	9.5	10.0	11.5	7.0	8.5	11.0	8.0	9.5	9.5	10.0

Table XII. *Continued.*

Area No. / Diam.	51	52	53	54	55	56	57	58	59	60
	m	m	m	m	m	m	m	m	m	m
— 0.3	15.71	16.28	15.85	15.61	15.73	16.18	16.26	16.22	16.36	15.96
— 0.2	15.52	16.09	15.66	15.42	15.54	15.99	16.07	16.03	16.17	15.77
— 0.1	15.43	16.00	15.57	15.33	15.45	15.90	15.98	15.94	16.08	15.68
0.0	15.37	15.94	15.51	15.27	15.39	15.84	15.92	15.88	16.02	15.62
1.0	14.78^{59}	15.41^{53}	14.88^{63}	14.70^{57}	14.86^{53}	15.48^{36}	15.26^{66}	15.33^{55}	15.54^{48}	15.08^{54}
2.0	14.32^{46}	14.91^{50}	14.30^{58}	14.17^{53}	14.38^{48}	15.11^{37}	14.65^{61}	14.86^{47}	15.10^{44}	14.60^{48}
3.0	13.93^{39}	14.43^{48}	13.75^{55}	13.68^{49}	13.93^{45}	14.74^{37}	14.09^{56}	14.44^{42}	14.68^{42}	14.16^{44}
4.0	13.57^{36}	13.97^{46}	13.21^{54}	13.23^{45}	13.50^{43}	14.38^{36}	13.58^{51}	14.06^{38}	14.28^{40}	13.75^{41}
5.0	13.22^{35}	13.53^{44}	12.68^{53}	12.82^{41}	13.10^{40}	14.02^{36}	13.11^{47}	13.72^{34}	13.89^{39}	13.35^{40}
6.0	12.87^{35}	13.11^{42}	12.16^{52}	12.45^{37}	12.71^{39}	13.66^{36}	12.67^{44}	13.40^{32}	13.51^{38}	12.97^{38}
7.0	12.53^{34}	12.72^{39}	11.62^{54}	12.11^{34}	12.34^{37}	13.30^{36}	12.26^{41}	13.09^{31}	13.14^{37}	12.60^{37}
8.0	12.19^{34}	12.35^{37}	11.08^{54}	11.77^{34}	11.98^{36}	12.94^{36}	11.89^{37}	12.79^{30}	12.77^{37}	12.24^{36}
9.0	11.86^{33}	12.01^{34}	10.54^{54}	11.43^{34}	11.62^{36}	12.57^{37}	11.56^{33}	12.50^{29}	12.41^{36}	11.90^{34}
10.0	11.54^{32}	11.70^{31}	10.00^{54}	11.10^{33}	11.26^{36}	12.20^{37}	11.25^{31}	12.21^{29}	12.06^{35}	11.59^{31}
11.0	11.23^{31}	11.40^{30}		10.76^{34}	10.91^{35}	11.85^{35}	10.95^{30}	11.93^{28}	11.72^{34}	11.28^{31}
12.0	10.95^{28}	11.11^{29}		10.46^{30}	10.56^{35}	11.51^{34}	10.68^{27}	11.64^{29}	11.40^{32}	10.97^{31}
13.0	10.67^{28}	10.86^{25}		10.19^{27}	10.22^{34}	11.20^{31}	10.43^{25}	11.34^{30}	11.09^{31}	10.66^{31}
D	11.0	10.0	6.0	10.0	10.0	10.5	8.5	11.0	10.5	9.0

TABLE XII. *Continued.*

Area No. / Diam.	61	62	63	64	65	66	67	68	69	70
	m	m	m	m	m	m	m	m	m	m
— 0.3	15.77	16.39	15.58	15.75	15.44	15.97	15.20	15.68	15.37	16.03
— 0.2	15.58	16.20	15.39	15.56	15.25	15.78	15.01	15.49	15.18	15.84
— 0.1	15.49	16.11	15.30	15.47	15.16	15.69	14.92	15.40	15.09	15.75
0.0	15.43	16.05	15.24	15.41	15.10	15.63	14.86	15.34	15.03	15.69
1.0	14.82^{61}	15.53^{52}	14.68^{56}	14.80^{61}	14.61^{49}	15.08^{55}	14.33^{53}	14.73^{61}	14.37^{66}	15.08^{61}
2.0	14.27^{55}	15.05^{48}	14.21^{47}	14.29^{51}	14.19^{42}	14.58^{50}	13.83^{50}	14.20^{53}	13.78^{59}	14.52^{56}
3.0	13.77^{50}	14.60^{45}	13.81^{40}	13.84^{45}	13.83^{36}	14.12^{46}	13.37^{46}	13.72^{48}	13.25^{53}	14.01^{51}
4.0	13.30^{47}	14.16^{44}	13.46^{35}	13.44^{40}	13.48^{35}	13.71^{41}	12.94^{43}	13.27^{45}	12.77^{48}	13.55^{46}
5.0	12.85^{45}	13.73^{43}	13.14^{32}	13.08^{36}	13.13^{35}	13.33^{38}	12.54^{40}	12.84^{43}	12.33^{44}	13.13^{42}
6.0	12.42^{43}	13.32^{41}	12.83^{31}	12.74^{34}	12.78^{35}	12.97^{36}	12.18^{36}	12.42^{42}	11.92^{41}	12.74^{39}
7.0	12.02^{40}	12.93^{39}	12.53^{30}	12.43^{31}	12.43^{35}	12.63^{34}	11.85^{33}	12.02^{40}	11.54^{38}	12.37^{37}
8.0	11.66^{36}	12.57^{36}	12.24^{29}	12.14^{29}	12.08^{35}	12.29^{34}	11.54^{31}	11.63^{39}	11.19^{35}	12.02^{35}
9.0	11.34^{32}	12.22^{35}	11.95^{29}	11.88^{26}	11.73^{35}	11.96^{33}	11.25^{29}	11.24^{39}	10.87^{32}	11.67^{35}
10.0	11.04^{30}	11.88^{34}	11.67^{28}	11.63^{25}	11.38^{35}	11.63^{33}	10.97^{28}	10.87^{37}	10.57^{30}	11.33^{34}
11.0	10.76^{28}	11.55^{33}	11.40^{27}	11.39^{24}	11.03^{35}	11.32^{31}	10.70^{27}	10.53^{34}	10.30^{27}	11.00^{33}
12.0	10.49^{27}	11.23^{32}	11.12^{28}	11.16^{23}	10.68^{35}	11.00^{32}	10.47^{23}	10.21^{32}	10.04^{26}	10.68^{32}
13.0	10.23^{26}	10.95^{28}	10.83^{29}	10.94^{22}	10.34^{34}	10.70^{30}	10.27^{20}	9.92^{29}	9.78^{26}	10.39^{29}
D	8.5	10.5	12.5	11.0	10.0	10.0	10.5	9.0	10.0	12.00

TABLE XII. *Continued.*

Area No. / Diam.	71	72	73	74	75	76	77	78	79	80
	m	m	m	m	m	m	m	m	m	m
— 0.3	15.97	16.36	15.79	15.79	15.96	15.67	15.65	15.90	16.17	16.35
— 0.2	15.78	16.17	15.60	15.60	15.77	15.48	15.46	15.71	15.98	16.16
— 0.1	15.69	16.08	15.50	15.51	15.68	15.39	15.37	15.62	15.89	16.07
0.0	15.63	16.02	15.44	15.45	15.62	15.33	15.31	15.56	15.83	16.01
1.0	15.02^{61}	15.33^{69}	14.87^{57}	14.93^{52}	15.04^{58}	14.61^{72}	14.61^{70}	14.96^{60}	15.45^{38}	15.67^{34}
2.0	14.55^{47}	14.79^{54}	14.35^{52}	14.44^{49}	14.54^{50}	14.05^{56}	14.06^{55}	14.40^{56}	15.08^{37}	15.32^{35}
3.0	14.12^{43}	14.33^{46}	13.88^{47}	13.97^{47}	14.10^{44}	13.61^{44}	13.60^{46}	13.89^{51}	14.71^{37}	14.98^{34}
4.0	13.71^{41}	13.90^{43}	13.44^{44}	13.53^{44}	13.69^{41}	13.20^{41}	13.22^{38}	13.43^{46}	14.34^{37}	14.64^{34}
5.0	13.31^{40}	13.49^{41}	13.04^{40}	13.12^{41}	13.30^{39}	12.82^{38}	12.87^{35}	13.00^{43}	13.98^{36}	14.30^{34}
6.0	12.92^{39}	13.10^{39}	12.68^{36}	12.72^{40}	12.93^{37}	12.47^{35}	12.54^{33}	12.60^{40}	13.62^{36}	13.97^{33}
7.0	12.52^{40}	12.71^{39}	12.34^{34}	12.34^{38}	12.59^{34}	12.14^{33}	12.22^{32}	12.23^{37}	13.26^{36}	13.64^{33}
8.0	12.13^{39}	12.32^{39}	12.01^{33}	11.98^{36}	12.26^{33}	11.82^{32}	11.91^{31}	11.88^{35}	12.90^{36}	13.32^{32}
9.0	11.74^{39}	11.96^{36}	11.69^{32}	11.63^{35}	11.94^{32}	11.49^{33}	11.60^{31}	11.54^{34}	12.54^{36}	13.01^{31}
10.0	11.36^{38}	11.60^{36}	11.36^{33}	11.31^{32}	11.62^{32}	11.17^{32}	11.29^{31}	11.24^{30}	12.20^{34}	12.71^{30}
11.0	10.96^{40}	11.24^{36}	11.02^{34}	10.99^{32}	11.33^{29}	10.85^{32}	10.98^{31}	10.95^{29}	11.87^{33}	12.41^{30}
12.0	10.56^{40}	10.89^{35}	10.68^{34}	10.68^{31}	11.03^{30}	10.55^{30}	10.67^{31}	10.66^{29}	11.54^{33}	12.11^{30}
13.0	10.17^{39}	10.54^{35}	10.35^{33}	10.38^{30}	10.74^{29}	10.25^{30}	10.36^{31}	10.38^{28}	11.23^{31}	11.81^{30}
D	9.0	8.0	9.5	9.0	10.5	8.0	10.0	9.0	11.0	13.5

TABLE XII. *Continued.*

Area No. Diam.	81	82	83	84	85	86	87	88	89	90
	m	m	m	m	m	m	m	m	m	m
— 0.3	15.83	15.82	16.16	15.74	15.57	15.88	16.41	16.00	16.08	15.98
— 0.2	15.64	15.63	15.97	15.55	15.38	15.69	16.22	15.81	15.89	15.79
— 0.1	15.55	15.54	15.88	15.46	15.29	15.60	16.13	15.72	15.80	15.70
0.0	15.49_{58}	15.48	15.82	15.40	15.23	15.54	16.07	15.66	15.74	15.64_{61}
1.0	14.91	14.97^{51}	15.41^{41}	14.88^{52}	14.64^{59}	15.05^{49}	15.56^{51}	15.10^{56}	15.20^{54}	15.03
2.0	14.44^{47}	14.47^{50}	15.01^{40}	14.40^{48}	14.10^{54}	14.58^{47}	15.06^{50}	14.60^{50}	14.69^{51}	14.45^{58}
3.0	14.02^{42}	13.98^{49}	14.62^{39}	13.95^{45}	13.62^{48}	14.13^{45}	14.57^{49}	14.14^{46}	14.22^{47}	13.92^{53}
4.0	13.64^{38}	13.51^{47}	14.23^{39}	13.52^{43}	13.18^{44}	13.70^{43}	14.10^{47}	13.69^{45}	13.78^{44}	13.44^{48}
5.0	13.28^{36}	13.06^{45}	13.84^{39}	13.12^{40}	12.77^{41}	13.30^{40}	13.65^{45}	13.24^{45}	13.38^{40}	12.99^{45}
6.0	12.92^{36}	12.63^{43}	13.45^{39}	12.75^{37}	12.38^{39}	12.90^{40}	13.23^{42}	12.79^{45}	13.00^{38}	12.57^{42}
7.0	12.55^{37}	12.22^{41}	13.06^{39}	12.39^{36}	12.00^{38}	12.50^{40}	12.84^{39}	12.34^{45}	12.63^{37}	12.19^{38}
8.0	12.19^{36}	11.84^{38}	12.67^{39}	12.03^{36}	11.63^{37}	12.12^{38}	12.48^{36}	11.90^{44}	12.28^{35}	11.85^{34}
9.0	11.83^{36}	11.49^{35}	12.27^{40}	11.68^{35}	11.27^{36}	11.74^{38}	12.14^{34}	11.48^{42}	11.95^{33}	11.54^{31}
10.0	11.48^{35}	11.17^{32}	11.88^{39}	11.33^{35}	10.94^{33}	11.37^{37}	11.82^{32}	11.08^{40}	11.62^{33}	11.26^{28}
11.0	11.14^{34}	10.85^{32}	11.50^{38}	10.99^{34}	10.62^{32}	11.00^{37}	11.53^{29}	10.71^{37}	11.30^{32}	11.01^{25}
12.0	10.82^{32}	10.55^{30}	11.11^{39}	10.66^{33}	10.33^{29}	10.62^{38}	11.26^{27}	10.37^{34}	11.00^{30}	10.77^{24}
13.0	10.50^{32}	10.27^{28}	10.73^{38}	10.35^{31}	10.04^{29}	10.25^{37}	11.00^{26}	10.04^{33}	10.70^{30}	10.54^{23}
D	10.0	9.5	10.0	11.0	9.5	10.0	9.5	10.0	11.0	10.0

TABLE XII. *Continued.*

Area No. Diam.	91	92	93	94	95	96	97	98	99 *Bru*	100
	m	m	m	m	m	m	m	m	m	m
— 0.3	16.95	16.82	16.79	16.68	16.67	16.49	16.26	16.45	14.95	16.05
— 0.2	16.76	16.63	16.60	16.49	16.48	16.30	16.07	16.26	14.86	15.86
— 0.1	16.67	16.54	16.51	16.40	16.39	16.21	15.98	16.17	14.78	15.77
0.0	16.61	16.48	16.45_{46}	16.34_{65}	16.33	16.15_{67}	15.92	16.11	14.70_{8}	15.71_{60}
1.0	15.84^{77}	16.06^{42}	15.99	15.69	15.81^{52}	15.48	15.40^{52}	15.62^{49}	14.62	15.11
2.0	15.20^{64}	15.64^{42}	15.52^{47}	15.12^{57}	15.32^{49}	14.90^{58}	14.97^{43}	15.16^{46}	14.50^{12}	14.64^{47}
3.0	14.63^{57}	15.23^{41}	15.05^{47}	14.61^{51}	14.85^{47}	14.40^{50}	14.54^{43}	14.71^{45}	14.32^{18}	14.22^{42}
4.0	14.12^{51}	14.83^{40}	14.59^{46}	14.13^{48}	14.39^{46}	13.94^{46}	14.13^{41}	14.28^{43}	14.10^{22}	13.84^{38}
5.0	13.66^{46}	14.42^{41}	14.12^{47}	13.69^{44}	13.93^{46}	13.52^{42}	13.74^{39}	13.87^{41}	13.87^{23}	13.50^{34}
6.0	13.23^{43}	14.02^{40}	13.64^{48}	13.27^{42}	13.49^{44}	13.14^{38}	13.35^{39}	13.48^{39}	13.60^{27}	13.18^{33}
7.0	12.83^{40}	13.62^{40}	13.17^{47}	12.86^{41}	13.06^{43}	12.77^{37}	12.95^{40}	13.10^{38}	13.28^{32}	12.86^{32}
8.0	12.46^{37}	13.23^{39}	12.69^{48}	12.47^{39}	12.63^{43}	12.41^{36}	12.54^{41}	12.73^{37}	12.88^{40}	12.54^{32}
9.0	12.12^{34}	12.83^{40}	12.22^{47}	12.10^{37}	12.22^{41}	12.05^{36}	12.15^{39}	12.37^{34}	12.45^{43}	12.22^{32}
10.0	11.80^{32}	12.44^{39}	11.73^{49}	11.74^{36}	11.83^{39}	11.68^{37}	11.78^{37}	12.03^{34}	12.02^{43}	11.91^{31}
11.0	11.47^{33}	12.05^{39}	11.29^{44}	11.38^{36}	11.47^{36}	11.34^{34}	11.44^{33}	11.70^{33}	11.68^{34}	11.60^{31}
12.0	11.15^{32}	11.70^{35}	10.86^{43}	11.03^{35}	11.13^{34}	11.00^{34}	11.11^{33}	11.39^{31}	11.35^{33}	11.29^{31}
13.0	10.85^{30}	11.36^{34}	10.48^{38}	10.68^{35}	10.80^{33}	10.68^{32}	10.82^{29}	11.09^{30}	11.05^{30}	10.98^{31}
D	9.0	11.0	8.5	9.0	9.0	8.0	10.0	11.0	10.0	10.0

TABLE XII. *Continued.*

Area No. / Diam.	101 *Bru*	102 *Bru*	103 *Bru*	104 *Bru*	105 *Bru*	106 *Bru*	107 *Bru*	108 *Bru*	109 *Bru*	110 *Bru*
	m	m	m	m	m	m	m	m	m	m
— 0.3	15.85	16.75	16.42	16.66	16.50	16.29	16.02	16.20	16.62	16.42
— 0.2	15.76	16.66	16.33	16.57	16.41	16.20	15.93	16.11	16.53	16.33
— 0.1	15.68	16.58	16.25	16.49	16.33	16.12	15.85	16.03	16.45	16.25
0.0	15.60$_{26}$	16.50	16.17$_{26}$	16.41	16.25$_{28}$	16.04$_{26}$	15.77	15.95$_{12}$	16.37	16.17
1.0	15.34	16.11^{39}	15.91	16.09^{32}	15.97	15.78	15.34^{43}	15.83	16.16^{21}	15.88^{29}
2.0	15.07^{27}	15.70^{41}	15.65^{26}	15.77^{32}	15.68^{29}	15.52^{26}	14.92^{42}	15.69^{14}	15.92^{24}	15.58^{30}
3.0	14.78^{29}	15.27^{43}	15.39^{26}	15.45^{32}	15.39^{29}	15.24^{28}	14.49^{43}	15.54^{15}	15.64^{28}	15.29^{29}
4.0	14.46^{32}	14.82^{45}	15.12^{27}	15.14^{31}	15.11^{28}	14.95^{29}	14.07^{42}	15.37^{17}	15.33^{31}	15.00^{29}
5.0	14.12^{34}	14.38^{44}	14.84^{28}	14.84^{30}	14.83^{28}	14.65^{30}	13.66^{41}	15.17^{20}	14.99^{34}	14.71^{29}
6.0	13.73^{39}	13.94^{44}	14.55^{29}	14.53^{31}	14.56^{27}	14.34^{31}	13.25^{41}	14.93^{24}	14.61^{38}	14.42^{29}
7.0	13.30^{43}	13.51^{43}	14.23^{32}	14.21^{32}	14.29^{27}	14.02^{32}	12.83^{42}	14.65^{28}	14.19^{42}	14.12^{30}
8.0	12.86^{44}	13.05^{46}	13.87^{36}	13.89^{32}	14.02^{27}	13.69^{33}	12.39^{44}	14.31^{34}	13.81^{38}	13.82^{30}
9.0	12.40^{46}	12.57^{48}	13.47^{40}	13.56^{33}	13.74^{28}	13.34^{35}	11.92^{47}	13.90^{41}	13.44^{37}	13.52^{30}
10.0	11.94^{46}	12.06^{51}	13.00^{47}	13.21^{35}	13.45^{29}	12.98^{36}	11.38^{54}	13.28^{62}	13.10^{34}	13.22^{30}
11.0	11.48^{46}	11.59^{47}	12.46^{54}	12.85^{36}	13.15^{30}	12.61^{37}	10.77^{61}	12.58^{70}	12.79^{31}	12.92^{30}
12.0	11.05^{43}	11.15^{44}	11.91^{55}	12.46^{39}	12.86^{29}	12.26^{35}	10.13^{64}	11.83^{75}	12.51^{28}	12.61^{31}
13.0	10.64^{41}	10.75^{40}	11.48^{43}	12.00^{46}	12.57^{29}	11.94^{32}	9.54^{59}	11.23^{60}	12.24^{27}	12.26^{35}
D	11.0	7.0	10.2	8.8	11.7	13.4	8.1	10.3	9.6	10.6

TABLE XII. *Concluded.*

Area No. / Diam.	111 *Bru*	112 *Bru*	113 *Bru*	114 *Bru*	115 *Bru*
	m	m	m	m	m
— 0.3	16.48	17.17	16.19	16.14	16.10
— 0.2	16.39	17.08	16.10	16.05	16.01
— 0.1	16.31	17.00	16.02	15.97	15.93
0.0	16.23	16.92	15.94	15.89$_{45}$	15.85$_{31}$
1.0	15.88^{35}	16.50^{42}	15.56^{38}	15.44	15.54
2.0	15.53^{35}	16.08^{42}	15.18^{38}	15.10^{34}	15.23^{31}
3.0	15.19^{34}	15.65^{43}	14.79^{39}	14.81^{29}	14.92^{31}
4.0	14.84^{35}	15.23^{42}	14.41^{38}	14.52^{29}	14.61^{31}
5.0	14.48^{36}	14.83^{40}	14.03^{38}	14.23^{29}	14.31^{30}
6.0	14.11^{37}	14.44^{39}	13.66^{37}	13.95^{28}	14.00^{31}
7.0	13.71^{40}	14.05^{39}	13.28^{38}	13.66^{29}	13.69^{31}
8.0	13.29^{42}	13.66^{39}	12.88^{40}	13.36^{30}	13.37^{32}
9.0	12.84^{45}	13.27^{39}	12.46^{42}	13.05^{31}	13.04^{33}
10.0	12.36^{48}	12.88^{39}	12.00^{46}	12.72^{33}	12.69^{35}
11.0	11.82^{54}	12.46^{42}	11.50^{50}	12.38^{34}	12.32^{37}
12.0	11.34^{48}	12.04^{42}	11.00^{50}	12.03^{35}	11.92^{40}
13.0	10.95^{39}	11.63^{41}	10.48^{52}	11.67^{36}	11.54^{38}
D	11.0	10.5	11.6	10.3	10.1

11. *Probable error of the positions.*

This probable error was derived in three different ways:

1st. By comparing the positions of the present catalogue with the positions (not yet published) found for the same stars in the Mount Wilson Durchmusterung of the Selected Areas. In this comparison a difference constant for a zone of 5′ width is absolutely eliminated by the process of reduction adopted for the Mount Wilson plates. Seventeen zones, on eleven areas, with a total of 442 stars gave

Prob. err. (Harvard—Mount Wilson)	
in x	± 0″.60
in y	± 0″.60
mean	± 0″.60

If we assume the probable error of the Mount Wilson plates to be equal to that of the Harvard plates we get

(15) $$r_x = r_y = \pm 0''.43.$$

2nd. By comparing the positions of the secondary standards in the regular observations, with those obtained before the measurement proper of the plate (see art. 5). Here only an error in x and an error in y constant for a whole plate are eliminated.

In the mean of 10 areas with in all 228 stars, I get

$$r_x = \pm 0''.44$$
$$r_y = \pm 0''.465$$

(16) $$\text{adopted } r_x = r_y = \pm 0''.45$$

3d. By comparing our positions for 9 areas (5 Metcalf and 4 Bruce plates) with those in the *Abbadia* meridian catalogue of 13532 stars between declinations + 5° 15′ and — 3° 15′. The epoch of the observations is so little different from that of the plates for the present catalogue, that with only two exceptions the proper motions could be safely neglected. No area was admitted which had not at least *six* stars in commun with the Abbadia catalogue. Eliminating a constant error in x and y for any one plate, putting $r_x = r_y$ and assuming the Abbadia probable error to be $r_x = r_y = \pm 0.20$, I get

(17) $$r_x = r_y = \pm 0''.63 \quad (75 \text{ stars}).$$

That in this case the error comes out so much greater cannot in the least surprise us. For the Abbadia stars belong without exception to the very brightest stars on our plates. On the 5 Metcalf plates the diameters of the common stars vary from 14″ to 35″ (average 19″.2), on the 4 Bruce plates from 12″ to 56″.5 (average 24″.4) For such big stars the estimate of the positions by means of a fixed ocular scale is extremely difficult and uncertain. In my opinion the surprisingly small errors (15) and (16), but certainly no less the value (17), testify to the extreme care and wonderful skill of the observer DE VRIES, the observer who made all the observations at the ocular of the main microscope

In conclusion. As the very bright stars are so few in number, we might almost, in the evaluation of the average probable error, neglect result (17) altogether. In order, however, rather to exaggerate than to underestimate our errors, I will finally combine the results (15), (16), (17) with weights proportional to the numbers of stars on which they rest. We thus get:

$$r_x = r_y = \pm\, 0''.465. \tag{18}$$

This error is perfectly of the same order as the average probable error of the Astronomische Gesellschaft Zone Catalogues. (Compare the numbers for most of the A. G. C. Zone Catalogues in: *Bull. du Comité Intern. perm. de la Carte du Ciel* Vol. I pp. 242—250)

To me this result has been a surprise. Neither the instrument, nor the method of observation, nor that of reduction have been planned for the attainement of a precision exceeding a probable error of ± 1″. I think this precision such that it seems doubtful whether there would be real advantage in still trying to improve the positions Absolute positions of the highest precision will be on their own account, of very little use. For the purpose of determining proper motion it certainly will be advantageous, not to rely on determinations of the coordinates for two remote epochs, but to compare the old and new positions directly by some system of differential measures: by the stereocomparator, or by making the exposures for one of the epochs through the glass (plate glass) so that the plates in measuring can be superposed, or by taking the exposures for the two epochs on the same plate.

On the other hand there is an urgent need for first rate meridian observations for a certain number of standard stars on each plate, in order that, in due time, we may be provided with the means of reducing our relative proper motions to absolute ones.

12. *Probable error ϱ of the magnitudes.*

This error ϱ has been obtained in two different ways. In both cases only the plates obtained with the Metcalf telescope were considered. It seems probable that the magnitudes furnished by the few Bruce plates contained in this first volume will be rather *better*. A good determination of their probable error will be obtainable from the data of the following volumes in which we will have to deal exclusively with Bruce plates.

1st. By a comparison of the magnitudes of the catalogue with the standard magnitudes determined at Harvard. The determination was made before all the plates had been measured. It thus rests on the comparisons for 62 areas. The result is

(19) Probable amount of the difference: Stand.-Cat. = ± $0^m.135$.

In the two assumptions:

a. that the p. e. of a Standard = p. e. of the Catalogue.

b. „ „ „ „ „ „ „ = $\frac{2}{3}$ „ „ „ „ „

we get respectively

(20) $\varrho = \pm 0^m.095$

(21) $\varrho = \pm 0^m.11$.

2nd. In the second place ϱ was derived from the comparison of five plates, which have been rejected after measurement, with the results of the repeated plates, received later. The original plates were all taken with the Metcalf telescope *before* the repolishing of the object glass; the repeated ones were all obtained *after* the repolishing. Assuming the p. e. to be the same for the two plates of each pair we get the following results

		ϱ	
	area 2	± $0^m.115$	(91 stars)
	„ 7	.127	(161 „)
	„ 9	.145	(107 „)
	„ 47	.102	(127 „)
	„ 97	.109	(92 „)
(22)	Mean	± .122	(578 „)

As the quality of the rejected plates is below the average this value of ϱ must be somewhat high. The comparison of the numbers (22) and (19) leads to this same conclusion, for the value (22) would leave hardly anything for the error of the Harvard standards. I will adopt therefore for the p. e. of a catalogue magnitude (which depends on two independent estimates)

(23) $\varrho = \pm 0^m.11$.

A somewhat summary investigation failed to show any well marked change of the p. e. with the magnitude, at least from the faintest stars up to magnitude 12. The value (23) may thus provisionally be adopted for the whole of the catalogue with exception, *perhaps*, of the very brightest stars.

It is curious to find that this p. e. agrees exactly with the value found in the case of the Cape Photographic Durchmusterung viz.

$$\varrho = \pm 0^{m}.114$$

(See C. P. D. vol. 1 p. (57)).

13. *Arrangement of the Catalogue.*

The several areas have been catalogued in the order of the rotation numbers in „Plan of Selected Areas". At the beginning of each has been given the number of the area and its centre for 1900. As already mentioned the choice of the centre makes its right ascension and declination for 1900 a full number of minutes of time, respectively a full multiple of 10′.

For the declination of the centre of the plate we need not look up the beginning of the plate. We have only, on *any* page, to take the degrees at the top of the page and the minutes added to the y at the head of the fourth column of each section.

For all the areas except the first (polar region), which will be separately considered, each page contains 5 sections at the top of each of which have been given the rotation number of the first and last star. As after each fifth star a space has been left open, the reading off of the number of any star offers no inconvenience. At the bottom of each page and where necessary again at the end of the area, has been given the *precession* in α and δ for 25 years. I chose this interval in order to facilitate the comparison with the *Astronomische Gesellschaft* Catalogue. No doubt also the epoch 1925 will in future be chosen for many important catalogues.

The stars are arranged in zones of 10′ width in declination, two consecutive zones being separated by a cross line through the whole section. The reason which led us to retain this width has been given in art. 6.

In each section the content of the several columns is as follows:

1st *Column. International magnitude.*

The scale is that of the Harvard Polar sequence (Harv. Ann. Vol. 71. No. 3 p. 231). It agrees with the definition of the *international* magnitude, which prescribes that the photographic magnitude of the stars of spectrum Ao and magnitude 5.5 — 6.5 shall be the same as the visual magnitude according to the Harvard Scale. (See for instance: Harv. Ann. Vol. 71, Part. 3 p. 212).

The magnitudes were computed from the diameters by table XII for all the stars of which the diameter is below the limit D, indicated in the last line of this table. For the greater diameters the secondary images have contributed to the determination of the magnitude (see art. 10). An *asterisk* (*) indicates that the magnitude has *not* been computed from the diameter, but has simply been taken in accordance with the Harvard standards. The magnitude finally of a few very bright stars has been taken from different sources of *visual* magnitude. Where the spectrum is known these were reduced to photographic magnitudes by applying the correcting of Harv. Ann. Vol. 71 I p. 7. Where the spectrum is unknown the average value $+ 0^{m}.5$ of this correction has been applied. All these cases have been referred to in footnotes.

2nd *Column. The right ascension for* 1900.

It was computed from the x and the declination for the middle of the zone, by formula (11). For the polar area (area No. 1) and the areas of zone $+ 75^\circ$ it has been given accurately to the nearest tenth of a minute of time; for the lower declinations accurate to the nearest second of time. This precision is of course in general perfectly sufficient for purposes of identification. Should a greater precision be required for any particular purpose then formula (1) will give the most convenient reduction with a precision considerably exceeding that of the observed x and y.

The *hour* of the right ascension must be taken from the top of the page, left hand side.

3d *Column. The x for* 1900. It has been given in two decimals of the minute of arc. In order to avoid negative numbers, the negative values of x have been increased by 100. No mistake will be possible if the rule is kept in mind that every number greater than 50, and no other, in the column of the x must be diminished by 100. So for instance the x of the first star for area 1 must be read

$$x = 69'.41 - 100 = - 30'.59.$$

4th *Column. The y for* 1900. At first sight it may seem strange, and I have already been blamed for it, that the y, unlike the x, have been expressed in minutes and seconds. Indeed it has been my original intention to give them also in fractions of the minute. Meanwhile this plan would have involved the necessity to divide the ocular scale in 100 instead of 60 parts and practical experience had taught me that, with the greatest power which could be used without sacrificing the extent of the field of somewhat over 10', these parts would be too small for the very best estimate of the diameters ¹). This

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¹) This holds in reality only for the Bruce plates, which served for the whole of the southern hemisphere and were measured first. Had the Metcalf plates preceded we might perhaps not have come to adopt the present plan.

first brought me to consider the feasibility of observing seconds of arc instead of hundredths of minutes and I soon came to the conclusion that the advantages of such an arrangement would far surpass its drawbacks. The whole matter is of importance only in the comparison with other catalogues or with the sky. Where only a rough comparison is made, accurate to 1′ or even 0′.1, such as a comparison with some Durchmusterung, the two plans are pretty well equivalent. A more refined comparison will be made only with some precision catalogue or with some observation at the meridian circle, in both of which cases the declinations will be given in seconds of arc. In these cases, therefore, it will be a decided advantage to have our y (which, by the application, wherever necessary, of the corrections of table 6, will be at once translated into declinations) expressed in minutes and seconds.

It is only in the comparison with such a work as the „Carte du Ciel" catalogue that the matter might be different. But such a comparison will be of rare occurrence

1st as long as this catalogue is still as fragmentary as it is now;

2nd as long as the coordinates x and y have not more generally been reduced to α and δ. For without such a reduction any comparison will involve a very laborious computation, compared to which the mere reduction of our seconds to hundredths of minutes may be considered as perfectly immaterial. As soon, however, as the coordinates will really have been reduced to α and δ the advantage will again be on the side of our plan.

It is for such reasons as these that I definitively abandoned the plan of giving the y in fractions of the minute.

This column shows at the same time the approximate declination, the full degrees being given at the top of the page, right hand side. In order to satisfy this double purpose of representing y and δ at the same time, the y have been increased, or diminished by a multiple of 10′, the amount being everywhere shown at the top of the column.

The notations $y + 0'$ and $y - 0'$ have crept in by mistake; they mean simply y.

Take for instance area 2. For the first star we read

$$\begin{array}{rrl} \delta = & +75^\circ\ 9'\ 35'' & \text{(approximately)} \\ y + 20' = & 9'\ 35'' & \text{therefore} \\ y = & -10'\ 25'' & \end{array}$$

If we wish a more accurate δ we have to consult table VI, which gives the correction to be $-14''$, so that, accurate to about one second,

$$\delta = +75^\circ\ 9'\ 21''.$$

The table VI shows that the correction never amounts to as much as $1'$. Except for a very few cases in zone $75°$, the correction will practically always be too small to hinder certain identification.

A determination of δ as accurate as is obtainable from our x and y is most conveniently computed by formula (2) in which $\alpha - A$ will be taken, with sufficient precision, in accordance with the 2nd column.

Polar plate (area No. 1). For this region the y no longer furnish a useful approximation for the declinations. Another arrangement has therefore been adopted. The right ascension, accurate to the tenth of the minute of time, the declination, accurate to the second, and further the precessions for 25 years, all for the epoch 1900, are shown *for each individual star*. For epochs not too remote from 1900 these precessions will be sufficient for most purposes. For more distant epochs it is preferable to apply the precession to the x and y and then, from the x and y for the new epoch, pass to the α and δ by the aid of the formulae (1) and (2). This precession for x and y is given at the bottom of the page. It is to be so understood that the x and y for the new epoch E will represent the coordinates in a rectangular system oriented on the parallel of the epoch E and with its centre still at $\alpha = 8^h.0$, $\delta = + 89° 0'$.

14. *Abbreviations*

?	Col.	magn.	Existence of star somewhat doubtful.
ne *or* neb	„	„	Nebula.
:	„	„	Double star.
×	„	„	Star image diffuse. Nebula?
*	„	„	Magnitude taken in agreement with Harvard standards.

15. *Errata.*

page	Area & No.	Col.	for	read
1	1,44	magn.	11.32	10.32
6	2,283	„	14.48	15.48
19	8,94	„	add an asterisk	
26	11,240	„	add an asterisk	
43	18,550	x	50.8	5.08
92	36,187	magn.	12.78	13 65
217	80,131	„	add an asterisk	
275	97,341	„	13.36	11.36
299	104,29	„	:	planet Sirona.

16. *Conclusion.*

In conclusion I wish to tender cordial thanks to all who have contributed to the present work.

To Professor Seares for the invaluable help he has rendered us by the early communication of his standards of magnitude, which has made it possible to prolong our scale with confidence to the faintest stars on the plates. To Sir Frank Dyson and the Greenwich observers for a similar long series of independent magnitude determinations, undertaken for the Franklin Adams plates, which, together with some other series, very courteously furnished by the lamented Professor Schwarzschild, have enabled us to solve several doubtful cases in the drawing of our magnitude curves.

I wish further to state that the consecutive assistants of the laboratory: Dr. W. de Sitter, Dr. H. A. Weersma, Dr. F. Zernike and Dr. P. J. van Rhijn have taken by far the greater portion of the supervision of the work of reduction on their shoulders. As compared to theirs my share in the work has been a very modest one.

Finally I wish to record my indebtedness to all the computers of the laboratory who really performed the routine work of observation and reduction. To three of them: the computers E. J. Rondeel, J. M. de Zoute and the principal observer T. W. de Vries in particular I feel a great debt of gratitude. The two former have performed all the more refined work connected with the reductions, with great skill and accuracy.

De Vries with the aid of two helpers, has made the whole of the orientation, measurement and revision of all the plates for both hemispheres. In the reduction too he has taken part, in proof-reading a very prominent part. I feel that to him, more than to anybody else, belongs the main credit of whatever may be the merits of the work.

Groningen, April 1917.

Area 1. Centre for 1900: $8^h\ 0^m + 89° 0'$.

1—50							51—100						
Int. magn.	x	y	α	δ	25 pr. α	25 pr. δ	Int. magn.	x	y	α	δ	25 pr. α	25 pr. δ
	′	′ ″	h m	° ′ ″	m	′ ″		′	′ ″	h m	° ′ ″	m	′ ″
12.68	69.41	77 04	6 39.0	+ 88 31 37	+ 22.6	− 1 25	15.94	14.56	78 31	8 40.5	+ 88 37 14	+ 19.0	− 5 23
15.08?	70.98	73 53	6 45.5	29 7	21.9	1 39	14.50	15.26	78 17	8 42.3	36 52	18.8	5 26
14.75	71.03	77 52	6 42.3	32 54	22.9	1 32	12.86	15.93	76 55	8 43.4	35 25	18.4	5 28
15.60	74.22	75 05	6 52.4	31 15	22.3	1 54	13.67	16.14	75 15	8 43.1	33 44	18.1	5 27
14.75	77.08	72 40	7 1.2	29 42	21.7	2 12	13.59	16.31	76 23	8 44.2	34 49	18.2	5 29
13.40	77.33	77 48	6 58.3	34 44	23.0	2 6	12.86	17.15	76 44	8 46.6	34 59	18.1	5 33
14.55	77.82	74 09	7 2.0	31 20	22.1	2 14	14.04	18.45	75 36	8 49.3	33 36	17.6	5 38
14.55	78.55	75 12	7 3.2	32 32	22.3	2 17	14.08	18.65	74 05	8 49.0	32 5	17.4	5 37
15.02	78.78	73 39	7 4.8	31 5	22.0	2 20	14.26	18.74	76 15	8 50.4	34 11	17.7	5 39
14.75	80.42	76 31	7 7.2	34 16	22.6	2 25	14.40	19.03	70 04	8 47.8	28 5	16.8	5 35
14.08	80.64	75 28	7 8.4	33 17	22.4	2 27	14.75	20.16	75 40	8 53.8	33 17	17.3	5 45
14.65	82.07	75 02	7 12.3	33 9	22.2	2 36	14.50	21.29	73 51	8 55.5	31 15	16.8	5 47
15.08	85.13	79 18	7 18.3	37 57	23.2	2 48	15.36	21.58	73 25	8 56.0	30 45	16.7	5 48
15.60	86.93	72 38	7 26.0	31 39	21.4	3 4	15.94	22.36	72 42	8 57.5	29 53	16.4	5 51
14.91	88.20	79 24	7 26.7	38 33	23.1	3 5	15.22	23.83	70 54	8 59.9	27 46	16.0	5 54
14.91	88.61	71 35	7 30.7	30 50	21.1	3 13	11.98	24.06	70 00	8 59.9	26 50	15.8	5 54
12.86	90.23	79 50	7 32.2	39 14	23.1	3 16	14.65?	25.13	77 21	9 7.7	33 36	16.4	6 6
14.91	90.71	74 32	7 35.2	34 3	21.6	3 22	14.60	26.12	79 43	9 12.1	35 35	16.4	6 13
15.36	91.53	77 05	7 36.7	36 38	22.2	3 25	13.52	26.87	73 15	9 8.8	29 11	15.6	6 8
15.08	93.13	78 07	7 40.8	37 50	22.4	3 33	14.55	27.80	77 39	9 14.6	33 5	15.8	6 16
15.08	93.32	71 25	7 42.7	31 10	20.7	3 37	15.94	28.71	72 04	9 12.4	27 30	15.1	6 13
14.50	95.11	75 26	7 46.8	35 18	21.4	3 45	15.22	28.75	78 21	9 17.6	33 26	+ 15.6	− 6 21
13.70	95.33	73 35	7 47.6	33 28	21.0	3 47	15.94	69.99	89 51	6 27.3	+ 88 43 42	+ 26.2	− 1 0
15.60	95.43	73 03	7 48.0	32 56	20.8	3 48	13.15	71.46	87 25	6 34.1	42 1	25.6	1 14
14.75	96.09	76 27	7 49.3	36 21	21.6	3 50	14.80	72.66	87 50	6 37.0	42 50	25.8	1 21
14.80	96.88	73 13	7 51.8	33 9	20.8	3 55	15.44	74.40	86 06	6 43.6	41 48	25.3	1 35
10.06	97.14	79 40	7 51.8	39 37	22.3	3 55	14.91	74.48	85 42	6 44.2	41 26	25.2	1 36
15.44	98.22	78 18	7 55.0	38 17	21.8	4 1	13.88	75.62	89 58	6 43.2	45 51	26.6	1 34
15.44?	98.48	77 37	7 55.8	37 36	21.6	4 3	15.02	76.37	87 03	6 48.2	43 19	25.7	1 45
14.91	99.67	77 02	7 59.1	37 2	21.3	4 9	15.15	76.96	80 10	6 55.6	36 54	23.6	2 1
13.04	0.49	78 35	8 1.4	38 35	21.6	4 13	14.40	77.35	83 10	6 54.3	39 54	24.5	1 58
14.75	0.63	74 04	8 1.7	34 4	20.5	4 14	15.08	77.60	85 29	6 53.1	42 12	25.2	1 55
15.22	0.68	71 05	8 1.8	31 5	19.8	4 14	15.08	78.00	89 23	6 50.8	46 2	26.5	1 50
14.40	1.30	72 03	8 3.4	32 2	20.0	4 17	15.75	78.74	82 36	6 58.5	39 44	24.4	2 7
14.80	2.54	77 11	8 7.0	37 9	20.9	4 24	13.15	79.60	88 26	6 56.3	45 35	26.2	2 2
15.75	3.30	73 02	8 8.7	32 58	19.9	4 27	14.80	80.61	82 54	7 3.5	40 30	24.4	2 17
15.60	3.57	70 40	8 9.1	30 37	19.4	4 28	15.94	80.94	81 22	7 5.5	39 5	24.0	2 21
15.94	5.30	76 52	8 14.6	36 41	20.4	4 38	15.94	82.28	89 27	7 3.6	47 15	26.6	2 17
15.08	5.59	73 46	8 14.8	33 35	19.7	4 38	15.36?	84.75	83 03	7 15.2	41 33	24.4	2 42
13.48	6.09	75 13	8 16.4	35 0	19.9	4 41	14.70	87.13	89 46	7 18.5	48 36	26.5	2 48
14.75	8.28	77 52	8 23.0	37 27	20.1	4 53	11.47	88.24	86 33	7 23.6	45 37	25.3	2 59
14.40	9.03	73 34	8 23.9	33 5	19.1	4 54	14.75	92.66	82 42	7 38.3	42 21	23.7	3 29
15.94	9.47	79 32	8 26.8	38 59	20.2	5 0	14.80	99.16	82 45	7 57.5	42 45	22.9	4 6
11.32	10.24	79 34	8 29.0	38 55	20.1	5 3	15.22	2.24	87 16	8 7.0	47 14	23.6	4 24
14.40	11.03	75 18	8 29.7	34 35	19.1	5 5	11.64	2.62	83 55	8 7.9	43 52	22.6	4 25
15.60	12.49	72 29	8 32.5	31 36	18.3	5 9	9.88	2.65	80 57	8 7.7	40 55	21.8	4 25
14.08	13.32	71 35	8 34.3	30 34	18.0	5 13	14.40	3.18	82 36	8 9.4	42 32	22.2	4 28
12.32	13.36	71 48	8 34.5	30 48	18.0	5 13	14.75	4.31	80 18	8 12.4	40 11	21.4	4 34
13.34	14.15	77 57	8 39.1	36 44	19.0	5 21	15.94	7.11	81 47	8 20.8	41 28	21.2	4 49
13.96	14.32	72 14	8 37.1	31 4	+ 17.9	− 5 17	14.75	9.51	86 50	8 29.6	46 14	+ 21.9	− 5 4

25 prec. in x and y + 7′.57, — 251″.

Area 1.

101—150							151—200						
Int. magn.	x	y	α	δ	25 pr. α	25 pr. δ	Int. magn.	x	y	α	δ	25 pr. α	25 pr. δ
	′	′ ″	h m	° ′ ″	m	′ ″		′	′ ″	h m	° ′ ″	m	′ ″
15.75	12.25	81 23	8 35.4	+ 88 40 26	+ 20.0	− 5 14	15.60	96.99	95 50	7 49.2	+ 88 55 45	+ 27.8	− 3 50
15.36	12.41	87 55	8 39.1	46 51	21.4	5 21	13.67	98.33	94 45	7 54.1	54 44	27.0	3 59
15.08	13.10	83 37	8 38.9	42 30	20.3	5 20	15.75	98.65	92 29	7 55.4	52 28	26.1	4 2
14.65	13.72	83 49	8 40.8	42 35	20.2	5 24	7.11*	99.48	95 59	7 58.2	55 59	27.3	4 7
15.94?	15.71	87 26	8 48.9	45 45	20.4	5 37	11.15	1.81	94 32	8 6.4	54 30	26.2	4 23
15.22	15.97	81 45	8 46.1	40 8	19.2	5 32	14.65	2.25	92 48	8 7.7	52 46	25.4	4 25
14.55	15.98	88 56	8 50.7	47 9	20.6	5 40	14.80	3.58	98 17	8 13.3	58 11	27.2	4 35
13.04	15.98	83 14	8 47.0	41 35	19.5	5 34	9.86	5.46	94 39	8 19.1	54 26	25.2	4 46
14.91	16.99	83 58	8 50.4	42 5	19.4	5 39	15.94	6.76	97 09	8 24.6	56 47	25.7	4 56
15.08	17.13	83 16	8 50.4	41 22	19.2	5 39	15.94	7.36	97 03	8 26.7	56 37	25.5	4 59
14.55	18.06	86 26	8 55.2	44 15	19.5	5 47	12.79	12.14	90 04	8 39.4	49 1	22.0	5 21
14.75	19.52	83 16	8 57.1	40 49	18.6	5 50	15.94	12.26	96 23	8 43.7	55 13	23.6	5 28
14.40	19.81	84 50	8 59.1	42 16	18.8	5 53	15.08	12.65	90 29	8 41.3	49 20	21.9	5 24
15.22	19.86	89 20	9 2.8	46 36	19.5	5 59	14.80	13.02	99 50	8 48.8	58 27	24.3	5 37
13.04	19.90	89 16	9 2.9	46 32	19.4	5 59	15.22	15.14	95 28	8 52.8	53 43	22.3	5 43
13.26	20.10	89 46	9 3.9	46 57	19.5	6 0	15.75	15.44	92 52	8 51.8	51 7	21.6	5 42
10.77	23.45	80 05	9 5.4	36 44	17.2	6 3	13.96	15.54	93 15	8 52.4	51 28	21.7	5 42
14.31	23.69	88 19	9 13.1	44 30	18.2	6 14	14.40	15.94	94 39	8 54.8	52 45	21.8	5 46
10.39	26.19	89 15	9 21.2	44 34	17.5	6 26	13.67	16.53	90 37	8 53.6	48 41	20.8	5 44
14.80	27.51	85 35	9 21.2	40 40	+ 16.7	− 6 26	15.94	17.72	95 42	9 1.6	53 18	21.4	5 57
15.60	69.30	97 58	6 14.7	+ 88 50 47	+ 28.9	− 0 32	15.75	18.42	90 35	8 59.4	48 11	20.2	5 54
14.26	70.86	95 10	6 23.2	48 56	28.1	0 51	15.94	18.73	90 32	9 0.4	48 3	20.0	5 55
11.31	71.23	99 23	6 18.4	52 54	29.7	0 40	14.04	18.98	96 03	9 6.1	53 18	21.0	6 4
15.75	71.31	95 20	6 24.3	49 15	28.2	0 53	15.60	19.36	95 39	9 7.0	52 48	20.8	6 5
11.64	72.44	98 33	6 23.3	52 39	29.6	0 51	15.94	20.52	91 29	9 6.7	48 29	19.6	6 5
14.91	73.08	95 32	6 29.3	50 9	28.4	1 4	13.40	22.12	98 44	9 19.4	54 52	20.2	6 23
10.87	76.67	94 09	6 42.0	50 9	28.2	1 31	15.36	23.12	95 03	9 18.4	51 3	19.3	6 22
13.88	76.87	96 46	6 39.6	52 40	29.3	1 26	14.40	23.72	99 06	9 25.1	54 38	19.6	6 31
14.40	77.03	90 04	6 47.3	46 24	26.7	1 43	14.65	24.27	97 15	9 24.6	52 43	19.1	6 30
14.80	78.86	93 01	6 50.0	49 46	27.9	1 49	15.08	24.59	95 22	9 23.3	50 52	18.8	6 29
15.02	79.65	93 43	6 51.7	50 39	28.2	1 52	15.66?	25.40	90 23	9 20.2	45 54	17.8	6 24
15·94	81.03	92 17	6 57.4	49 40	27.6	2 4	15.22	25.70	92 01	9 22.8	47 19	18.0	6 28
15.08	82.51	98 29	6 56.5	56 2	30.3	2 2	14.50	27.64	90 44	9 27.0	45 25	17.2	6 34
14.18	83.49	92 22	7 5.1	50 23	27.7	2 21	15.94	28.38	99 42	9 40.8	53 21	+ 17.7	− 6 52
15.02	86.42	95 38	7 12.3	54 13	28.9	2 36	13.84	69.92	6 14	6 3.1	+ 88 58 24	+ 32.4	− 0 7
15.08	89.12	98 01	7 20.2	57 4	29.8	2 52	15.36	71.64	1 11	6 17.0	54 42	30.5	0 37
15.02	89.15	95 21	7 21.9	54 27	28.6	2 55	11.47	72.07	3 00	6 15.6	56 32	31.4	0 34
15.44	89.39	95 22	7 22.7	54 30	28.6	2 57	14.40	72.67	6 16	6 12.2	59 43	33.0	0 27
15.36	90.72	96 39	7 26.6	55 59	29.0	3 5	12.50	72.78	8 14	6 9.1	89 1 31	34.0	0 20
14.91	91.39	92 44	7 30.8	52 11	27.3	3 14	15.22?	73.50	9 35	6 9.1	3 3	34.8	0 20
13.88	91.68	98 33	7 29.2	58 0	29.8	3 10	11.98	73.80	5 50	6 16.7	88 59 49	33.0	0 37
14.50	91.73	97 42	7 29.8	57 9	29.4	3 11	14.75	74.22	6 01	6 17.9	89 0 11	33.2	0 39
15.08	92.15	92 29	7 33.5	52 2	27.1	3 19	14.91	74.23	9 55	6 11.1	3 40	35.2	0 24
15.94	92.54	99 37	7 31.8	59 9	30.2	3 16	15.60?	77.48	1 26	6 35.9	88 57 16	31.4	1 18
14.55	93.51	91 00	7 38.5	50 42	26.4	3 29	15.75	78.87	7 47	6 31.9	89 3 40	34.9	1 10
15.94	95.01	93 15	7 42.9	53 4	27.0	3 38	12.32	79.10	5 28	6 36.1	1 36	33.6	1 19
14.91	95.65	93 05	7 45.1	52 57	26.9	3 42	15.75	79.16	5 43	6 36.0	1 52	33.8	1 19
15.08	95.95	93 19	7 46.1	53 12	26.9	3 44	15.44	81.12	9 24	6 38.1	6 0	36.2	1 23
11.74	96.66	99 32	7 47.4	59 26	29.5	3 46	13.88	82.22	0 18	6 53.7	88 57 43	31.2	1 56
15.28	96.66	99 46	7 47.3	59 40	+ 29.6	− 3 46	10.45	83.24	7 32	6 49.1	89 4 56	+ 35.2	− 1 47

25 prec. in x and $y + 7'.57,\ - 251''$.

Area 1.

201—250							251—300						
Int. magn.	x	y	α	δ	25 pr. α	25 pr. δ	Int. magn.	x	y	α	δ	25 pr. α	25 pr. δ
	′	′ ″	h m	° ′ ″	m	′ ″		′	′ ″	h m	° ′ ″	m	′ ″
15.22	83.63	6 49	6 51.6	+ 89 4 22	+ 34.8	− 1 52	12.15	19.88	7 39	9 23.2	+ 89 4 0	+ 22.9	− 6 28
14.91	83.76	3 21	6 56.0	1 4	32.8	2 1	14.91	22.68	7 34	9 33.6	2 52	21.2	6 42
11.05	84.68	3 45	6 59.1	1 42	33.0	2 8	15.94	22.78	2 25	9 26.3	88 58 4	20.5	6 33
12.32	84.91	4 50	6 58.8	2 48	33.6	2 7	13.88	26.48	6 24	9 45.2	89 0 13	19.0	6 57
15.22	84.94	5 26	6 58.3	3 23	34.0	2 6	15.94	26.52	3 34	9 40.7	88 57 39	18.8	6 51
14.91	87.78	9 52	7 5.2	8 24	36.9	2 21	15.22	26.89	0 52	9 37.8	55 3	18.4	6 48
13.26	89.38	9 40	7 12.4	8 33	36.6	2 36	12.15	27.49	8 27	9 52.3	89 1 35	18.6	7 5
14.50	90.32	4 54	7 20.1	4 3	33.4	2 52	15.08	27.79	4 15	9 46.0	88 57 43	+ 18.2	− 6 58
14.50	90.46	0 44	7 23.4	88 59 59	31.1	2 58	14.18	69.89	18 14	5 36.8	+ 89 8 30	+ 38.2	+ 0 51
15.94	91.17	6 18	7 22.6	89 5 35	34.2	2 57	14.75	70.21	11 21	5 54.1	2 58	34.8	0 13
15.94	91.55	4 03	7 25.6	3 25	32.8	3 3	15.44	71.16	16 58	5 44.7	8 12	38.2	0 33
14.04	91.81	6 17	7 25.3	5 39	34.1	3 2	12.32	73.69	15 25	5 57.8	8 14	38.2	0 5
14.80	92.34	3 34	7 29.1	3 3	32.4	3 10	13.88	73.72	18 29	5 50.6	10 52	40.2	+ 0 20
13.04	92.39	6 40	7 27.5	6 7	34.2	3 7	15.94	74.66	13 44	6 5.2	7 16	37.6	− 0 11
13.52	92.96	2 01	7 32.3	1 35	31.4	3 17	15.94	75.21	14 57	6 4.7	8 35	38.5	− 0 10
14.75	93.12	5 44	7 31.1	5 18	33.5	3 14	12.32	76.00	19 16	5 58.0	12 43	41.8	+ 0 4
15.94	93.69	5 53	7 33.4	5 31	33.5	3 19	15.44	76.39	17 15	6 4.3	11 10	40.4	− 0 10
15.60	94.10	5 56	7 35.1	5 36	33.5	3 22	12.15	77.79	10 34	6 23.2	5 48	36.4	0 51
15.94	94.61	5 33	7 37.4	5 17	33.2	3 27	15.94	79.25	12 52	6 25.0	8 30	38.2	0 55
13.22	95.30	3 01	7 41.1	2 49	31.6	3 34	15.94	84.83	13 00	6 48.5	10 37	39.2	1 45
15.28	95.81	9 38	7 41.0	9 28	35.5	3 34	14.65	85.30	13 00	6 50.5	10 45	39.2	1 50
15.08	96.45	8 57	7 44.1	8 50	34.9	3 40	15.60	85.47	13 29	6 50.6	11 16	39.6	1 50
15.08	96.96	5 09	7 47.3	5 4	32.4	3 46	14.55	85.53	17 35	6 44.7	15 11	43.2	1 37
13.34	97.78	7 54	7 50.3	7 51	33.8	3 52	15.22?	86.61	18 02	6 49.2	15 57	43.7	1 47
14.91	98.91	6 42	7 55.3	6 41	32.7	4 2	15.94	86.64	18 40	6 48.3	16 34	44.4	1 45
14.91	99.91	9 42	7 59.6	9 42	34.3	4 10	15.75	87.02	14 16	6 56.6	12 28	40.3	2 3
14.91	1.88	2 46	8 7.5	2 45	29.7	4 25	13.67	92.35	12 35	7 23.3	11 58	38.5	2 58
14.80	2.31	9 02	8 10.4	8 59	32.9	4 30	13.48	93.43	19 52	7 22.8	19 20	45.3	2 57
14.91	2.38	3 01	8 9.6	2 58	29.6	4 29	15.60	94.23	17 22	7 29.2	16 59	42.4	3 10
14.08	2.68	2 13	8 10.6	2 9	29.1	4 30	14.91	96.57	14 30	7 42.7	14 22	39.1	3 37
14.91	3.19	7 31	8 13.9	7 25	31.6	4 37	14.91	96.99	18 52	7 43.2	18 45	43.0	3 38
14.26	3.80	6 02	8 16.1	5 54	30.6	4 41	14.55	98.60	18 01	7 52.4	18 0	41.5	3 56
15.94	4.34	1 10	8 16.8	1 0	28.1	4 42	13.63	99.41	19 38	7 56.7	19 38	42.7	4 4
15.94	4.98	3 16	8 20.1	3 3	28.8	4 48	14.55	99.60	17 37	7 57.8	17 37	40.6	4 7
15.22	6.06	8 58	8 27.1	8 37	31.1	5 0	15.75	0.48	14 00	8 2.4	14 0	37.1	4 15
15.44	8.09	9 06	8 36.1	8 28	30.1	5 16	14.75	0.88	16 38	8 4.7	16 37	39.0	4 20
15.75	9.98	5 29	8 41.5	4 34	27.6	5 25	15.22	1.40	19 11	8 7.9	19 9	41.0	4 25
14.55	10.52	8 06	8 45.8	7 3	28.4	5 32	14.80	1.70	12 00	8 8.1	11 58	35.0	4 26
13.04	12.37	0 59	8 47.3	88 59 43	24.9	5 34	14.80	1.83	15 02	8 9.3	15 0	37.2	4 28
15.08	12.50	9 23	8 55.5	89 7 51	27.7	5 47	14.65	2.70	10 41	8 12.5	10 37	33.8	4 34
15.08	12.76	1 23	8 49.2	0 0	24.9	5 37	12.86	2.75	17 26	8 14.8	17 21	38.6	4 38
14.91	13.13	2 01	8 51.1	0 32	24.9	5 40	14.18	3.01	17 38	8 16.3	17 31	38.6	4 41
15.94	14.02	0 07	8 52.7	88 58 30	24.0	5 43	15.08	3.19	17 41	8 17.2	17 34	38.5	4 43
14.18	14.06	2 39	8 55.1	89 0 57	24.7	5 47	15.94	5.61	15 52	8 29.0	15 31	35.5	5 3
15.94	14.65	2 43	8 57.4	0 52	24.4	5 50	15.22	6.53	19 33	8 36.7	19 1	37.5	5 17
15.44	15.34	6 04	9 3.5	3 56	25.0	6 0	15.75	7.86	10 54	8 36.4	10 17	31.2	5 16
15.22	16.14	5 23	9 5.8	3 3	24.4	6 3	14.50	10.26	10 35	8 47.0	9 32	29.6	5 34
15.94	17.21	1 09	9 5.2	88 58 41	22.8	6 2	15.75	11.11	11 13	8 51.3	9 58	29.4	5 41
15.02	18.65	2 53	9 12.3	59 55	22.6	6 13	14.31	11.25	14 23	8 55.4	13 1	30.6	5 47
15.22	19.25	6 18	9 18.9	89 2 57	+ 23.0	− 6 22	15.75	11.35	17 41	9 0.1	16 11	+ 32.2	− 5 55

25 prec. in x and $y + 7'.57, - 251''$.

Area 1.

301—340							341—378						
Int. magn.	x	y	α	δ	25 pr. α	25 pr. δ	Int. magn.	x	y	α	δ	25 pr. α	25 pr. δ
	′	′ ″	h m	° ′ ″	m	′ ″		′	′ ″	h m	° ′ ″	m	′ ″
15.08	12.83	12 13	9 0.1	+ 89 10 32	+ 28.6	− 5 55	14.55	84.66	25 17	6 24.7	+ 89 22 3	+ 51.4	− 0 54
15.94	14.17	14 04	9 8.6	11 56	28.4	6 7	14.31	84.74	25 16	6 25.1	22 3	51.4	0 55
12.32	15.18	18 52	9 21.0	16 10	29.2	6 25	15.94	85.41	25 48	6 27.6	22 49	52.4	1 0
15.60	15.88	11 04	9 11.9	8 33	26.2	6 12	15.94	85.94	21 50	6 39.1	19 19	47.6	1 25
15.94	15.98	13 15	9 15.5	10 36	26.8	6 18	13.70	86.25	29 44	6 22.3	26 46	58.6	0 49
14.91	16.27	16 59	9 22.8	14 1	27.6	6 28	15.94	86.48	25 47	6 33.8	23 12	52.8	1 14
15.44	16.39	14 02	9 18.5	11 12	26.7	6 22	15.36	88.13	28 43	6 36.9	26 32	57.7	1 20
15.94	16.59	17 37	9 25.5	14 30	27.5	6 32	15.94	89.49	27 22	6 48.6	25 43	55.8	1 46
15.94	17.01	14 58	9 22.8	11 51	26.4	6 28	15.94	93.28	20 27	7 21.4	19 53	46.0	2 54
14.31	17.83	14 08	9 25.0	10 47	25.6	6 31	13.67	93.61	28 25	7 14.3	27 47	57.6	2 40
12.32	18.47	11 06	9 22.8	7 43	24.5	6 28	14.50	95.27	26 14	7 28.1	25 54	53.3	3 8
15.60	18.71	12 02	9 25.3	8 30	24.5	6 31	15.94	95.70	29 01	7 28.4	28 43	58.0	3 9
15.22	19.31	17 46	9 38.3	13 33	25.2	6 48	14.55	99.40	28 38	7 55.6	28 38	54.7	4 2
15.94	19.74	16 31	9 37.6	12 15	24.6	6 48	13.40	99.94	21 37	7 59.6	21 37	44.5	4 10
14.04	20.84	13 47	9 37.1	9 18	23.3	6 47	15.22?	2.28	28 47	8 16.7	28 42	51.9	4 42
15.75	21.38	18 19	9 48.6	13 9	23.4	7 1	15.44	3.27	26 35	8 22.3	26 25	47.6	4 52
15.60	21.60	18 00	9 48.9	12 46	23.2	7 1	15.36	5.93	27 03	8 40.8	26 31	45.0	5 24
12.50	22.16	19 44	9 55.3	14 2	22.8	7 9	15.94	6.43	20 09	8 36.7	19 38	38.0	5 17
15.36	22.32	17 51	9 51.6	12 18	22.6	7 5	14.65	10.60	29 07	9 15.8	27 21	39.8	6 18
12.86	23.50	10 53	9 42.3	5 33	21.2	6 53	13.67	12.51	27 32	9 24.3	25 12	35.8	6 30
12.32	24.17	11 47	9 46.5	6 3	20.8	6 59	14.55	13.88	25 47	9 28.3	23 4	33.1	6 35
14.65	24.41	12 39	9 49.1	6 43	20.7	7 2	14.91	14.23	28 36	9 37.5	25 31	33.6	6 47
12.50	25.13	13 17	9 53.1	6 57	20.2	7 6	13.22	15.20	26 37	9 37.9	23 19	31.6	6 48
15.60	25.30	18 28	10 5.4	11 23	20.2	7 20	15.94	15.56	25 43	9 37.7	22 21	30.8	6 48
15.08	28.39	11 54	10 2.2	4 9	+ 18.1	− 7 16	14.31	16.23	23 40	9 36.3	20 13	29.5	6 46
15.60	69.34	28 18	5 3.8	+ 89 15 54	+ 43.4	+ 2 2	14.40	16.46	27 06	9 46.4	23 13	29.9	6 58
15.75	69.43	21 48	5 25.3	11 4	40.0	1 15	14.75	18.53	25 01	9 51.7	20 25	27.0	7 5
13.34	70.09	20 50	5 30.5	10 43	39.8	1 4	15.94	19.36	23 51	9 52.7	18 59	25.9	7 6
15.02	70.63	29 42	5 3.6	17 48	45.3	2 2	14.91	21.66	21 15	9 56.8	15 36	23.4	7 11
13.30	74.59	20 13	5 49.7	12 48	41.8	0 22	14.36	22.70	20 06	9 58.5	14 6	22.4	7 12
14.80	74.76	29 14	5 22.6	20 13	48.8	1 21	13.84	23.30	27 04	10 21.1	19 39	21.1	7 35
15.94	76.30	21 59	5 52.2	15 12	44.0	0 17	15.60	25.03	21 38	10 12.5	14 11	20.2	7 27
15.94	78.34	26 12	5 49.4	19 51	48.9	0 23	14.91	25.69	22 06	10 16.5	14 13	19.5	7 31
14.40	78.69	28 50	5 42.5	22 15	51.8	+ 0 38	15.08	26.36	25 59	10 31.1	16 58	18.1	7 44
15.08	78.76	23 01	6 0.6	17 21	46.2	− 0 1	13.52	26.40	27 00	10 34.6	17 44	17.8	7 47
15.75	80.50	27 51	5 55.0	22 24	52.2	+ 0 11	15.94	37.33	22 12	10 23.5	13 22	18.0	7 37
11.98	81.74	28 53	5 58.3	23 55	54.3	+ 0 4	15.60	27.39	20 11	10 18.1	11 41	18.3	7 33
12.50	82.31	26 04	6 9.9	21 44	51.2	− 0 22	15.02	27.70	28 16	10 44.5	17 52	+ 16.0	− 7 54
15.94	82.45	24 57	6 13.6	20 48	50.0	0 30							
14.26	83.25	22 02	6 24.8	18 31	+ 47.2	− 0 54							

25 prec. in x and y + 7′.57, — 251″.

Area 2. Centre for 1900: $0^h\ 5^m + 75^\circ\ 20'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
15.36	59.6	79.23	9 35	15.40	4.6	98.44	3 55	15.70	8.1	12.13	7 10	16.04	1.7	87.45	15 03	13.93	6.4	5.47	16 28
14.77	0.3	82.03	7 56	16.04	4.6	98.53	5 04	13.15	8.2	12.29	0 04	15.48	1.8	87.97	15 22	15.85	6.4	5.49	18 46
14.64	0.4	82.10	8 05	11.86	4.7	98.72	2 17	16.04	8.3	12.69	6 37	15.61	1.9	88.09	18 26	14.51	6.5	5.56	13 09
14.22	0.4	82.42	5 56	15.70	4.7	98.95	0 17	16.04	8.3	12.70	6 05	11.46	2.1	89.02	12 38	16.04	6.6	6.25	11 35
15.19	0.4	82.42	7 32	16.04	4.8	99.11	2 27	15.48	8.3	12.84	3 07	12.71	2.2	89.23	16 21	14.14	6.7	6.44	13 51
16.04	0.7	83.27	6 20	14.30	4.8	99.26	4 22	15.70	8.4	13.13	4 36	15.40	2.4	89.95	11 42	16.04	6.7	6.57	17 34
14.51	0.7	83.37	3 30	13.28	4.8	99.36	1 07	14.77	8.5	13.34	6 24	14.22	2.4	90.22	12 44	16.04	6.8	6.73	12 53
15.36	0.7	83.44	7 45	13.50	4.9	99.50	2 53	15.06	8.6	14.07	4 11	14.93	2.5	90.31	19 57	16.04	6.8	6.79	19 56
13.37	0.8	83.94	9 20	15.85	4.9	99.76	9 15	14.43	8.7	14.23	1 36	14.14	2.5	90.54	14 36	14.56	6.9	7.18	10 55
15.27	0.9	84.27	4 29	15.70	5.0	99.92	9 20	13.15	8.8	14.54	6 20	16.04	2.6	90.88	14 20	15.19	6.9	7.19	16 35
16.04	1.0	84.41	4 05	13.50	5.1	0.39	5 27	16.04	8.8	14.84	9 44	15.70	2.6	90.98	14 56	16.04	6.9	7.21	18 51
14.98	1.0	84.47	6 24	16.04	5.2	0.66	3 06	15.40	8.9	15.17	4 30	16.04	2.7	91.05	15 48	15.27	6.9	7.26	12 12
12.07	1.0	84.61	0 11	14.77	5.2	0.89	3 52	14.14	8.9	15.23	5 23	15.85	2.8	91.50	18 01	16.04	6.9	7.33	10 31
14.35	1.1	84.90	8 11	15.14	5.2	0.94	4 16	16.04	9.0	15.27	8 19	16.04?	2.8	91.70	14 36	16.04	7.2	8.32	16 59
11.46	1.1	84.99	4 05	15.70	5.3	1.07	9 05	16.04	9.3	16.53	9 31	15.57	2.9	92.09	11 15	15.48	7.2	8.46	19 16
15.61	1.2	85.21	5 52	16.04	5.4	1.38	7 45	13.59	9.3	16.59	6 05	15.57	3.0	92.22	15 15	16.04	7.3	8.69	14 21
15.85	1.2	85.23	0 49	15.61	5.5	1.79	2 53	16.04	9.3	16.74	8 20	15.48	3.0	92.44	13 20	12.28	7.5	9.60	13 19
15.36	1.2	85.35	6 18	16.04	5.6	2.18	8 07	14.77	9.4	16.83	9 27	15.40	3.1	92.73	13 22	12.07	7.6	10.11	18 09
13.93	1.3	85.60	0 12	15.85	5.6	2.26	9 44	15.36	9.8	18.67	9 12	16.04	3.3	93.36	17 28	15.27	7.7	10.47	13 54
13.46	1.3	85.86	6 06	15.27	5.7	2.81	9 11	15.27	59.5	79.14	19 26	16.04	3.4	93.98	16 36	14.85	7.9	11.07	19 08
16.04	1.4	85.95	7 50	15.27	5.8	2.92	4 58	13.37	59.6	79.44	16 36	15.14	3.7	95.18	14 21	15.06	8.0	11.28	15 27
12.28	1.5	86.32	7 59	15.27	5.8	3.23	7 55	15.36	59.6	79.50	14 17	15.36	3.8	95.34	19 39	14.22	8.0	11.30	11 04
15.14	1.6	86.95	8 03	13.88	6.0	3.66	0 23	16.04	59.8	80.02	19 22	15.85	3.9	95.70	18 16	14.51	8.0	11.31	17 16
15.40	1.8	87.62	8 42	16.04	6.1	4.25	7 35	16.04	0.0	80.92	13 08	16.04	3.9	95.85	19 34	15.70	8.0	11.31	13 34
14.72	1.9	88.08	0 29	14.64	6.2	4.57	0 00	15.36	0.1	81.20	16 43	16.04	4.0	96.21	14 04	16.04	8.1	11.74	15 26
14.64	2.0	88.61	8 50	15.37	6.3	4.92	2 07	15.57	0.1	81.37	13 25	15.85	4.0	96.24	16 10	16.04	8.1	11.74	16 20
15.85	2.2	89.17	1 04	15.36	6.3	5.12	1 24	16.04	0.1	81.42	10 58	15.85	4.2	96.83	18 11	16.04	8.2	12.33	19 40
14.64	2.4	89.89	2 55	14.93	6.4	5.48	1 52	14.85	0.2	81.55	18 09	14.77	4.2	96.94	10 11	15.57	8.4	12.90	18 47
11.66	2.4	90.07	4 40	11.86	6.5	5.87	7 19	14.14	0.2	81.57	18 23	16.04	4.2	97.08	18 00	14.64	8.4	13.07	16 08
13.28	2.4	90.12	0 15	16.04	6.5	5.92	9 14	14.56	0.2	81.59	16 09	16.04	4.4	97.79	12 16	12.37	8.5	13.25	10 28
15.82	2.6	90.55	1 07	15.06	6.6	6.07	8 08	14.89	0.3	81.99	10 36	14.85	4.7	98.83	19 03	15.19	8.5	13.32	17 43
15.70	2.7	91.19	5 14	14.64	6.6	6.16	6 03	15.19	0.4	82.37	12 27	15.48	4.7	98.83	16 14	12.71	8.5	13.51	18 03
16.04	2.7	91.21	0 03	16.04	6.6	6.34	5 00	14.98	0.4	82.43	15 32	15.40	4.7	98.86	15 12	16.04	8.6	13.58	19 20
15.85	2.8	91.41	1 05	14.85	6.7	6.40	0 15	15.19	0.5	82.87	16 37	14.43	4.7	98.88	17 04	15.40	8.7	14.07	12 40
13.41	2.8	91.47	9 46	15.70	6.7	6.54	5 02	14.51	0.6	83.29	15 56	16.04	4.8	99.22	10 29	16.04	8.7	14.16	13 04
12.71	2.8	91.55	5 07	14.93	6.8	6.79	4 56	15.40	0.7	83.43	18 50	9.37	4.8	99.34	16 18	14.98	9.1	15.61	16 53
16.04	3.1	92.51	5 09	15.36	6.8	6.83	2 07	16.04	0.7	83.45	11 48	14.98	5.0	0.07	12 00	14.77	9.1	15.80	11 58
14.01	3.3	93.46	9 38	15.48	6.8	6.89	1 44	16.04	0.7	83.54	19 25	13.59	5.0	0.13	16 38	13.59	9.2	16.08	16 35
12.49	3.4	93.87	3 11	13.59	6.8	7.10	5 48	14.98	0.8	84.06	16 21	9.95	5.1	0.32	17 54	14.77	9.3	16.34	12 06
10.87	3.6	94.43	8 47	15.61	6.9	7.37	9 39	16.04	0.9	84.43	19 56	16.04	5.3	1.13	11 25	14.56	9.4	16.77	18 24
16.04	3.7	94.82	6 48	13.15	7.1	7.99	4 47	16.04	1.0	84.71	13 38	15.40	5.4	1.53	11 44	16.04	9.7	17.82	11 13
16.04	3.9	95.83	2 42	16.04	7.2	8.37	9 33	15.85	1.1	84.94	14 03	15.40	5.4	1.53	12 55	13.72	9.8	18.24	17 48
15.70	4.0	95.95	4 39	15.06	7.3	8.99	9 14	16.04	1.2	85.30	19 20	14.35	5.4	1.57	19 52	15.06	9.8	18.37	16 17
15.70	4.1	96.40	4 27	14.43	7.3	9.00	7 19	15.48	1.2	85.47	17 19	16.04	5.4	1.71	13 26	16.04	9.9	18.55	13 42
15.06	4.1	96.42	5 18	14.85	7.4	9.23	5 24	15.85	1.3	85.74	12 17	16.04	5.6	2.14	10 36	16.04	9.9	18.60	18 56
15.61	4.1	96.64	6 01	16.04	7.6	9.87	3 14	16.04	1.3	85.88	18 35	15.70	5.6	2.48	14 25	15.57	59.5	79.12	24 20
13.15	4.3	97.34	4 18	15.36	7.8	10.96	4 37	13.67	1.4	86.15	16 45	15.70	5.8	3.22	18 46	16.04	59.5	79.19	24 47
13.24	4.5	97.91	8 21	15.36	7.9	11.24	1 45	11.66	1.4	86.44	15 29	14.93	6.0	3.82	17 44	15.14	59.6	79.69	20 52
15.70	4.5	97.98	2 16	15.85	8.0	11.68	8 54	16.04	1.5	86.57	12 07	14.72	6.1	4.07	10 39	15.85	59.7	80.06	20 14
12.49	4.6	98.34	0 10	12.71	8.1	12.06	8 48	16.04	1.6	86.99	14 27	16.04	6.2	4.48	18 57	16.04	59.8	80.32	23 42

25 prec. + 80 sec. + 8′ 21″.

251—300				301—350				351—400				401—450				451—460			
Int. magn.	*a*	*x*	*y*+20′	Int. magn.	*a*	*x*	*y*+20′	Int. magn.	*a*	*x*	*y*+20′	Int. magn.	*a*	*x*	*y*+20′	Int. magn.	*a*	*x*	*y*+20′
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
16.04	59.8	80.32	21 25	9.89	4.5	98.19	25 53	14.14	9.4	16.45	27 58	16.04	4.5	98.06	34 58	16.04	8.9	14.59	34 56
16.04	59.8	80.36	27 52	15.40	4.7	98.93	28 57	15.48	9.4	16.68	23 35	15.70	4.7	99.02	34 12	15.06	9.3	16.00	37 22
16.04	59.8	80.46	22 46	15.40	4.8	99.07	25 47	15.85	9.6	17.20	26 19	15.85	4.8	99.17	32 28	15.14	9.3	16.02	32 37
15.85	59.9	80.85	26 57	14.98	5.0	99.85	20 55	15.85	9.6	17.56	28 47	15.57	4.8	99.25	30 21	15.85	9.4	16.29	34 24
14.72	0.0	81.16	27 44	14.64	5.0	99.97	28 05	15.27	9.8	17.99	21 30	15.70	5.1	0.23	39 58	14.43	9.4	16.50	37 32
12.28	0.0	81.27	27 02	15.85	5.1	0.42	20 48	16.04	9.8	18.14	24 06	15.14	5.1	0.40	38 47	16.04	9.5	16.70	32 22
15.40	0.1	81.44	22 29	15.70	5.2	0.86	20 48	16.04	9.8	18.23	25 10	11.46	5.1	0.47	37 53	12.71	9.7	17.62	32 10
15.70	0.5	82.88	28 17	15.70	5.3	0.95	20 04	11.46	9.9	18.44	21 05	15.70	5.6	2.14	39 48	15.85	9.8	18.11	33 20
15.40	0.5	82.90	29 31	11.66	5.3	0.96	23 13	12.07	9.9	18.54	24 16	15.61	5.6	2.18	31 06	15.57	9.9	18.41	32 14
16.04	0.5	83.06	21 47	15.06	5.4	1.36	27 37	15.57	9.9	18.65	25 53	15.48	5.7	2.67	38 11	15.85	10.0	18.54	32 16
15.61	0.5	83.11	23 04	16.04	5.4	1.66	20 26	16.04	59.6	79.81	39 14	15.57	5.7	2.74	39 46				
15.36	0.6	83.35	29 01	15.70	5.7	2.68	23 04	13.37	59.6	79.97	37 52	15.19	5.7	2.79	32 57				
16.04	0.7	83.91	23 51	15.61	5.7	2.76	21 23	16.04	59.7	80.36	37 28	11.46	5.8	2.91	36 15				
16.04	1.1	85.13	25 34	16.04	5.9	3.43	22 08	14.43	0.0	81.37	37 38	16.04	5.8	2.94	35 16				
15.36	1.2	85.77	27 43	14.51	6.0	3.73	25 07	15.85	0.1	81.53	35 41	15.70	5.9	3.33	31 28				
16.04	1.3	85.86	28 25	15.40	6.0	3.90	23 53	15.61 ?	0.2	81.96	30 36	15.61	6.0	3.57	39 42				
15.36	1.3	86.05	25 07	15.60	6.3	4.73	24 07	16.04	0.2	82.02	39 46	15.19	6.0	3.80	39 29				
16.04	1.4	86.37	28 57	12.49	6.5	5.56	29 31	13.88	0.2	82.03	32 59	15.06	6.1	3.95	35 18				
14.51	1.5	86.69	29 59	16.04	6.5	5.84	23 01	16.04	0.2	82.18	34 16	16.04	6.2	4.35	32 47				
15.02	1.5	86.72	29 46	14.85	6.6	6.07	21 02	13.80	0.2	82.19	35 20	12.93	6.2	4.43	38 40				
14.35	1.5	86.94	20 35	14.93	6.6	6.19	27 38	13.72	0.7	83.76	31 13	14.60	6.2	4.58	30 16				
16.04	1.6	87.17	29 42	14.64	6.7	6.53	22 55	16.04	0.7	83.76	35 29	16.04	6.3	4.78	33 56				
16.04	1.7	87.41	22 02	16.04	6.8	6.71	20 48	15.36	0.9	84.54	31 42	15.27	6.5	5.75	33 58				
11.46	1.8	87.86	24 12	16.04	6.9	7.09	29 26	15.14	0.9	84.85	33 54	16.04	6.6	6.01	31 57				
15.61	1.9	88.16	20 02	15.85	7.2	8.29	21 59	14.93	1.0	84.93	32 05	15.27	6.6	6.14	32 27				
14.93	1.9	88.46	23 10	15.36	7.3	8.65	22 27	16.04	1.0	85.22	33 44	15.06	6.7	6.38	31 31				
15.36	2.1	89.00	25 22	15.06	7.4	9.07	21 48	14.85	1.2	85.93	34 39	14.51	6.7	6.53	39 22				
15.27	2.1	89.12	25 29	15.14	7.7	10.28	21 25	14.72	1.4	86.54	33 52	9.84	6.8	6.60	38 47				
12.71	2.2	89.37	26 42	14.56	7.8	10.62	22 55	16.04	1.4	86.59	31 40	14.93	7.1	7.78	31 06				
15.48	2.3	89.67	27 16	15.36	7.8	10.70	22 21	15.36	1.5	86.95	31 27	14.01	7.1	7.87	34 01				
13.80	2.3	89.92	29 56	15.57	8.0	11.34	29 01	15.19	2.0	88.70	31 14	14.51	7.1	7.87	36 20				
14.72	2.3	89.98	25 16	12.49	8.0	11.37	27 44	11.27	2.3	89.99	35 09	15.61	7.3	8.66	35 38				
14.48	3.0	92.44	22 44	14.93	8.2	12.12	27 47	14.35	2.3	90.04	35 39	15.27	7.3	8.76	37 34				
15.27	3.3	93.45	24 16	15.36	8.2	12.18	25 36	16.04	2.4	90.12	38 18	15.57	7.4	9.02	36 44				
15.19	3.3	93.58	21 57	16.04	8.2	12.22	29 26	16.04	2.8	91.63	36 22	14.56	7.6	9.78	32 51				
15.27	3.3	93.62	26 50	15.19	8.3	12.32	23 26	16.04	2.8	91.67	36 54	14.30	7.8	10.62	34 12				
15.27	3.4	93.98	24 32	14.93	8.3	12.42	26 54	14.98	2.9	91.99	37 39	16.04	7.9	10.83	31 17				
14.85	3.5	94.17	26 17	15.85	8.3	12.56	24 10	12.93	2.9	92.18	35 21	15.61	8.1	11.62	39 17				
15.27	3.6	94.75	25 00	15.85	8.4	12.97	29 18	16.04	3.0	92.60	30 28	15.48	8.1	11.69	33 12				
15.61	3.7	95.20	27 25	8.72*	8.5	13.08	28 20	15.70	3.4	93.89	37 39	15.85	8.2	11.76	32 44				
16.04	3.9	95.92	26 42	13.06	8.5	13.30	20 33	16.04	3.6	94.81	39 38	14.93	8.2	11.80	36 13				
15.36	4.0	96.08	25 32	13.02	8.8	14.29	22 31	15.70	3.7	95.04	36 06	14.30	8.3	12.36	36 58				
15.19	4.1	96.43	27 44	8.57*	8.8	14.33	28 05	14.85	3.9	95.93	39 11	11.46	8.4	12.53	36 31				
12.71	4.1	96.45	29 11	16.04	9.0	15.11	29 46	12.93	4.1	96.47	39 03	14.43	8.4	12.68	31 57				
15.85	4.1	96.59	23 07	15.57	9.0	15.12	28 45	15.61	4.1	96.74	38 49	13.67	8.4	12.70	36 18				
16.04	4.2	96.92	21 26	15.40	9.0	15.26	22 38	15.57	4.2	96.92	32 57	15.06	8.6	13.52	36 04				
15.40	4.2	97.14	21 39	16.04	9.0	15.30	25 20	14.93	4.3	97.28	37 49	14.26	8.7	13.73	30 26				
15.40	4.3	97.28	27 41	15.48	9.2	15.80	25 00	15.40	4.3	97.43	36 56	13.72	8.7	13.76	36 56				
15.10	4.3	97.35	29 51	14.98	9.3	16.09	27 21	15.48	4.4	97.76	39 56	14.72	8.7	13.80	32 40				
13.15	4.4	97.60	26 21	14.98	9.3	16.38	20 19	15.85	4.4	97.78	36 59	14.77	8.9	14.46	35 50				

25 prec. + 80 sec + 8′ 21″.

Area 3. Centre for 1900: 4^h 8^m + 75° 0′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$ $y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
11.73	2.8	79.62	45 05	15.30	10.2	8.77	40 25	15.30	7.3	97.36	56 28	13.97	4.0	84.72	5 19	15.11	12.1	15.75	4 53
13.59	3.0	80.19	48 45	15.30	10.2	8.83	40 56	13.70	7.6	98.24	55 58	15.30	4.1	84.96	5 30	14.82	12.2	16.08	5 45
15.30	3.0	80.34	45 05	13.89	10.5	9.83	45 00	8.64*	7.6	98.62	58 13	13.97	4.3	85.77	1 09	14.82	12.3	16.58	7 34
14.09	3.2	81.20	47 39	14.64	10.8	11.01	44 24	14.64	8.4	1.49	57 23	14.60	4.4	85.93	0 39	14.51	12.3	16.64	8 52
15.30	3.4	81.82	41 10	15.30	11.0	11.72	44 10	12.67	8.6	2.31	56 32	14.30	4.5	86.55	8 45	14.17	12.4	16.82	6 31
15.11	3.4	81.83	49 29	12.83	11.2	12.64	43 33	15.30	8.8	3.29	58 58	15.30	4.6	86.83	1 33	14.51	12.5	17.29	1 42
13.27	3.5	82.07	44 24	14.96	11.4	13.23	47 03	14.82	8.9	3.33	55 08	14.51	4.8	87.53	8 36	13.70	12.5	17.56	3 00
15.11	3.5	82.16	49 14	15.30	11.5	13.82	46 29	13.17	9.0	3.80	59 31	15.30	5.0	88.59	1 50	15.30	12.6	17.69	1 29
15.30	3.5	82.39	48 01	15.30	11.6	14.22	44 20	12.67	9.1	4.14	53 45	14.82	5.1	88.98	2 07	13.10	12.7	18.14	5 37
13.52	3.7	83.03	41 27	14.64	11.7	14.67	48 41	12.67	9.1	4.31	59 11	14.96	5.2	89.23	8 01	13.27	12.7	18.21	0 35
14.22	3.7	83.17	47 59	14.64	12.0	15.79	42 16	10.65	9.1	4.36	53 45	12.77	5.3	89.41	5 08	14.96	2.7	79.62	17 10
14.09	3.8	83.27	46 20	14.30	12.6	18.09	48 21	13.34	9.2	4.51	54 29	15.30	5.5	90.18	7 21	13.27	3.0	81.09	18 03
14.73	3.8	83.53	45 13	15.30	12.6	18.33	43 03	13.63	9.3	4.95	52 20	12.67	5.6	90.58	3 18	15.11	3.1	81.13	11 24
13.63	3.9	83.78	44 45	14.64	12.8	18.87	40 52	14.64	9.5	5.75	56 30	13.63	5.6	90.67	0 57	14.38	3.2	81.49	10 55
15.30	4.1	84.80	49 21	14.73	2.9	80.21	54 21	15.30	9.6	6.32	54 36	15.30	5.8	91.52	3 15	14.96	3.2	81.79	10 23
15.30	4.5	86.30	43 40	15.30	3.0	80.33	59 46	14.22	9.9	7.31	53 16	15.11	5.8	91.53	9 15	14.73	3.3	82.04	17 00
13.97	4.6	86.48	42 38	15.11	3.0	80.43	50 48	15.30	10.1	8.23	56 10	14.51	5.8	91.64	9 06	13.00	4.3	85.79	19 09
12.83	4.7	86.85	43 43	14.87	3.0	80.54	59 28	15.30	10.1	8.25	50 39	13.07	5.8	91.65	9 56	13.17	4.3	85.89	16 42
14.96	4.7	86.86	48 17	15.11	3.1	80.78	55 39	14.96	10.2	8.59	55 34	14.22	5.9	91.75	2 35	13.89	4.4	86.41	14 15
12.67	5.1	88.48	40 25	11.88	3.3	81.48	52 27	14.51	10.3	8.82	50 35	13.82	5.9	91.98	1 12	13.27	4.4	86.44	17 06
15.30	5.5	90.06	48 37	14.82	3.3	81.66	54 58	14.51	10.4	9.19	54 09	14.43	6.4	93.63	0 52	14.17	4.5	86.52	15 41
15.11	5.6	90.33	47 06	12.19	4.1	84.95	57 36	14.51	10.4	9.46	53 51	10.91	6.5	94.07	5 16	11.42	4.6	87.06	19 16
14.43	5.6	90.51	43 36	15.11	4.2	85.25	59 30	14.22	10.5	9.61	58 45	14.73	6.5	94.08	1 10	15.30	4.8	87.79	10 43
12.35	5.7	90.95	49 13	15.11	4.2	85.27	58 59	14.09	10.5	9.82	53 19	15.30	6.7	94.82	6 02	13.89	4.9	88.12	11 29
13.82	5.8	91.17	48 11	13.97	4.5	86.50	56 17	14.01	10.6	9.97	57 09	15.30	6.7	95.11	6 43	15.30	4.9	88.14	14 46
12.93	5.9	91.85	47 19	15.30	4.6	86.78	54 00	10.88	10.6	10.12	56 00	12.04	6.8	95.35	9 24	15.30	5.1	88.84	13 45
15.30	6.0	91.99	43 02	14.38	4.7	87.01	56 01	15.30	10.7	10.49	57 10	13.63	7.0	96.04	8 54	14.82	5.2	89.36	13 05
15.30	6.5	94.15	49 25	14.60	4.7	87.25	59 46	15.11	10.7	10.64	57 28	14.30	7.0	96.06	6 53	15.30	5.4	90.14	14 09
13.00	6.5	94.20	42 01	14.51	4.8	87.64	57 01	13.82	10.7	10.73	57 13	14.69	7.3	97.19	9 58	14.30	5.4	90.26	12 17
13.34	6.6	94.42	46 03	14.30	4.9	87.73	53 32	14.51	11.1	12.06	58 01	15.11	7.5	98.08	8 41	15.30	5.5	90.55	14 19
15.30	7.1	96.35	48 55	13.82	4.9	87.92	57 17	14.38	11.2	12.65	54 11	14.87	7.6	98.46	2 09	15.30	5.6	90.67	13 20
13.78	7.1	96.46	47 54	13.82	4.9	88.01	52 42	14.82	11.3	12.77	52 33	14.38	7.7	99.01	8 44	13.89	5.7	91.35	17 06
15.30	7.4	97.68	40 25	15.30	5.0	88.40	57 48	14.17	11.5	13.60	52 39	13.89	7.8	99.22	2 41	15.30	5.7	91.37	15 04
14.17	7.4	97.74	44 31	14.43	5.1	88.59	50 54	15.11	11.5	13.69	56 39	13.82	8.0	0.13	7 21	14.51	5.8	91.47	14 04
15.30	7.7	98.75	48 11	14.96	5.3	89.30	56 48	14.22	11.7	14.54	56 29	15.30	8.7	2.52	8 10	12.67	6.2	93.06	13 47
14.09	7.8	99.27	46 05	14.51?	5.3	89.36	59 27	12.83	11.8	14.81	51 48	15.30	8.7	2.73	2 23	15.11	6.3	93.40	16 55
15.30	7.9	99.73	48 01	14.69	5.4	89.84	59 42	13.41	11.8	14.87	54 55	13.07	8.8	2.95	3 00	14.73	6.6	94.46	17 12
15.11	8.0	99.85	48 46	14.30	5.6	90.61	50 02	14.01	11.8	14.96	52 11	14.38	9.0	3.66	8 51	15.30	6.8	95.30	17 23
13.97	8.0	0.08	46 13	13.00	5.8	91.34	57 47	14.73	12.3	16.74	55 51	11.88	9.1	4.31	5 30	14.64	6.9	95.70	11 46
14.22	8.2	0.69	44 08	14.17	5.9	91.77	58 38	13.63	12.4	17.14	50 12	14.87	9.1	4.31	3 44	14.96	7.0	96.23	18 20
14.17	8.2	0.75	48 03	15.30	6.0	92.06	50 41	14.17	12.6	18.02	55 49	15.30	9.5	5.80	3 28	14.51	7.1	96.71	17 25
13.82	8.4	1.38	47 11	12.93	6.0	92.38	57 17	14.43	12.8	18.80	51 00	15.30	9.8	7.10	1 35	14.17	7.2	96.86	16 36
14.73	8.5	2.03	49 02	15.11	6.1	92.63	56 15	15.30	2.8	79.94	8 11	15.30	9.9	7.42	9 01	14.82	7.4	97.81	19 05
14.01	9.1	4.36	46 40	14.51	6.2	92.97	52 58	14.87	2.9	80.22	2 28	15.11	9.9	7.48	2 01	15.30	7.5	98.04	10 27
15.30	9.3	5.03	42 48	15.30?	6.2	92.98	51 46	14.09	3.0	80.71	0 30	14.30	10.6	10.23	0 19	14.22	7.6	98.34	18 09
14.73	9.4	5.38	43 34	13.89	6.9	95.76	59 13	13.70	3.2	81.31	1 57	13.24	10.9	11.20	5 44	15.30	7.8	99.11	12 33
14.30	9.5	6.00	47 42	12.04	6.9	95.79	52 05	13.07	3.3	81.95	6 23	15.30	10.9	11.38	4 17	14.22	8.0	99.94	16 45
12.35	9.6	6.12	43 39	14.96	7.1	96.37	57 59	12.83	3.4	82.29	9 56	15.11	11.7	14.22	0 59	14.30	8.3	1.24	14 32
12.19	10.0	7.75	48 16	14.64	7.1	96.39	55 30	14.96	3.6	83.15	3 17	14.96	11.9	15.03	6 42	14.51	8.3	1.26	18 43
11.73	10.0	7.90	48 18	15.30	7.1	96.67	54 50	15.30	3.8	83.89	4 46	13.97	11.9	15.06	4 48	14.17	8.7	2.64	13 04

25 prec. + 187 sec. + 3′ 55″.

4^h Area 3. $+75°$

251—260				261—270				271—280				281—282							
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$				
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″				
14.38	8.8	3.08	10 56	14.51	10.5	9.70	12 13	13.17	12.2	16.19	15 17	15.30	12.9	18.79	17 29				
14.17	8.9	3.50	19 29	13.00	10.9	10.94	12 02	12.35	12.3	16.54	17 42	14.22	13.0	18.96	15 58				
13.41	9.1	4.28	16 04	15.11	11.0	11.55	19 49	15.30	12.4	17.00	18 20								
14.51	9.6	6.02	10 02	14.51	11.2	12.11	18 53	14.73	12.5	17.29	14 01								
14.01	9.6	6.14	16 12	13.89	11.3	12.73	12 22	11.73	12.6	17.66	17 27								
14.60	9.7	6.60	15 36	14.51	11.5	13.48	13 02	15.11	12.7	17.98	16 01								
14.96	9.8	6.72	11 03	8.83*	11.7	14.24	13 43	15.02	12.7	18.12	10 05								
12.67	9.8	7.01	14 13	14.38	11.8	14.53	17 39	15.30	12.9	18.55	15 04								
13.41	10.1	8.17	15 44	15.30	11.8	14.70	15 25	15.30	12.9	18.75	16 13								
14.30	10.2	8.55	12 04	13.89	12.2	16.10	11 45	14.43	12.9	18.76	15 16								

25 prec. + 190 sec. + 3′ 50″.

7^h — 8^h Area 4. Centre for 1900: $8^h\ 4^m + 74°\ 50'$. $+74°$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
14.44	56.9	71.32	29 29	13.64	1.1	88.40	21 49	12.92	8.9	19.56	29 30	14.44	2.6	94.42	39 04	14.44	7.2	12.65	32 08
14.76	57.1	72.02	29 25	15.38	1.2	88.60	21 15	15.04	9.7	22.91	24 05	14.44	2.6	94.44	33 09	14.36	7.4	13.51	30 23
14.24	57.1	72.28	24 49	15.38	1.3	88.94	25 48	15.19	10.0	24.13	23 41	12.77	2.7	95.00	34 48	15.04	7.5	13.81	35 40
13.44	57.3	72.97	20 35	11.29	1.3	89.29	27 23	15.38	10.1	24.43	20 09	14.56	2.8	95.25	39 15	15.38	7.8	15.03	33 00
14.64	57.4	73.50	20 21	15.04	1.6	90.24	24 16	9.83	11.2	29.22	21 29	12.33	2.9	95.61	30 04	14.00	7.8	15.17	30 12
13.92	57.5	73.78	22 57	14.64	1.7	90.73	21 09	14.52	11.5	30.07	27 47	14.32	3.0	95.85	30 54	12.45	8.0	15.89	36 09
14.96	57.5	73.91	20 21	15.38	2.1	92.54	28 11	14.44	56.9	71.70	39 34	14.04	3.2	96.80	30 14	12.45	8.3	16.98	35 03
15.19	57.6	74.18	24 58	14.72	2.2	92.72	26 41	14.32	57.2	72.89	37 31	14.96	3.9	99.45	39 24	14.64	8.6	18.15	33 54
13.96	57.6	74.20	28 05	14.16	2.6	94.56	28 09	15.19	57.3	73.34	37 07	14.12	4.0	0.01	37 44	13.36	8.6	18.25	34 49
14.44	57.8	75.09	22 56	14.12	3.1	96.53	28 34	15.19	57.6	74.40	38 13	13.72	4.1	0.54	39 24	15.38	8.7	18.73	30 10
14.92	58.0	75.85	21 42	14.04	3.3	97.17	29 31	14.40	58.0	76.15	39 40	12.25	4.2	0.68	35 22	14.64	9.1	20.53	38 24
14.44	58.1	76.09	20 19	13.44	3.7	98.71	23 36	11.86	58.1	76.43	32 00	15.19	4.6	2.37	39 19	13.24	9.6	22.25	33 17
14.76	58.1	76.14	26 57	13.68	3.8	99.36	29 47	14.84	58.1	76.43	37 14	14.76	4.8	3.00	30 41	15.38	9.8	23.14	31 13
9.18	58.4	77.40	20 33	14.64	4.3	1.16	26 15	15.38	58.6	78.48	31 40	14.52	4.8	3.39	30 36	14.12	10.1	24.22	37 41
11.29	58.4	77.63	24 53	11.29	4.5	1.96	20 44	14.96	58.7	78.88	39 37	15.38	5.0	3.88	37 30	10.38	10.2	24.83	34 36
14.92	58.5	77.76	24 14	15.19	4.9	3.49	25 21	14.52	59.2	80.84	37 35	13.84	5.1	4.34	36 43	12.84	10.7	26.55	32 29
15.04	59.1	80.25	25 19	15.38	5.3	5.18	23 57	14.72	59.2	80.98	35 35	14.72	5.2	4.98	35 53	12.25	10.8	26.96	36 56
14.64	59.2	80.52	24 41	13.44	5.9	7.80	26 25	8.16*	59.4	81.61	39 25	11.67	5.5	5.89	32 30	15.38	10.9	27.33	36 43
14.64	59.5	81.70	26 49	13.96	6.0	8.22	21 20	13.16	59.4	81.65	32 06	14.92	5.6	6.29	37 15	14.96	11.1	28.21	37 14
15.04	59.5	81.72	20 25	15.38	6.1	8.46	24 42	13.44	59.6	82.38	33 57	15.38	5.6	6.44	37 37	15.38	11.5	29.75	30 15
13.96	59.7	82.66	29 06	15.38	6.1	8.63	27 08	14.56	59.8	83.12	36 55	13.24	5.7	6.76	37 46	14.16	11.5	30.02	32 15
14.92	59.9	83.48	20 43	13.56	6.3	9.19	26 37	14.16	0.1	84.56	38 13	14.52	5.9	7.44	33 54	13.64	11.7	30.68	35 43
13.44	0.1	84.16	22 36	13.52	6.3	9.32	24 21	14.12	0.4	85.54	35 50	14.96	6.1	8.28	33 26	14.12	56.6	71.00	43 12
14.76	0.3	85.22	21 41	14.52	6.3	9.38	24 09	10.59	0.5	85.88	31 45	13.16	6.6	10.49	39 04	15.38	56.9	71.89	47 48
14.32	0.4	85.36	20 32	14.44	7.0	11.96	25 17	11.13	0.8	87.27	30 12	13.12	6.7	10.72	32 06	14.52	57.0	72.36	45 39
11.29	0.4	85.42	28 00	11.29	7.0	12.15	28 11	14.32	0.8	87.44	33 23	15.04	6.8	11.03	39 02	15.04	57.2	73.01	43 45
11.13	0.4	85.89	25 23	15.38	7.2	12.98	24 43	14.16	2.0	91.93	35 58	13.56	6.8	11.16	33 44	14.80	57.4	74.09	40 09
13.72	0.6	86.39	26 58	15.38	7.9	15.83	25 06	14.92	2.1	92.29	36 22	14.96	6.8	11.29	33 24	14.76	57.7	75.30	48 32
14.96	0.8	87.13	25 43	13.44	8.7	18.95	23 06	15.38	2.1	92.47	39 01	14.04	6.9	11.47	36 46	14.88	57.9	76.12	40 14
15.38	1.1	88.31	26 36	14.44	8.8	19.46	29 34	13.52	2.2	92.97	30 52	14.72	6.9	11.55	37 54	14.04	58.3	77.43	49 15

25 prec. + 180 sec. — 4′ 18″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$ $y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
12.77	58.3	77.49	41 40	15.38	7.9	15.50	42 27	10.84	2.5	94.06	57 08	14.96	58.2	77.77	0 16	15.38	8.9	19.09	1 08
14.56	58.4	77.87	41 43	15.38	8.1	16.25	45 09	14.44	2.5	94.29	53 48	15.04	58.3	77.82	1 53	14.64	9.2	20.07	4 13
14.44	58.5	78.46	49 37	14.24	8.7	18.61	44 33	15.04	2.6	94.55	53 21	10.57	58.4	78.33	5 41	14.76	9.2	20.13	3 31
11.86	58.6	78.57	40 45	13.84	8.8	19.04	48 31	15.19	2.7	94.91	57 01	9.93	58.7	79.56	4 48	13.04	9.2	20.15	1 02
11.12	58.7	78.91	42 08	14.32	8.9	19.24	42 58	15.38	2.8	95.16	50 54	14.64	58.9	80.19	6 13	15.04	9.5	21.18	4 25
14.96	58.8	79.40	46 33	14.12	9.0	19.65	40 22	13.96	3.7	98.65	58 41	14.56	59.0	80.86	4 35	14.56	9.9	22.67	7 30
13.92	59.0	80.38	46 12	14.52	9.1	20.05	44 04	15.38	3.7	99.00	58 02	14.76	59.3	81.70	9 00	14.64	9.9	22.89	2 36
14.72	59.2	80.96	49 01	15.38	9.3	20.83	43 46	14.92	4.3	1.01	59 30	14.24	59.4	81.82	4 57	7.38*	10.1	23.68	8 12
14.76	59.8	83.55	42 09	14.56	9.5	21.83	42 04	14.64	4.5	1.83	52 43	15.38	59.4	82.31	0 18	12.45	10.2	24.02	5 30
13.96	0.1	84.44	44 52	13.36	9.5	21.85	48 28	15.38	4.5	2.03	56 40	13.96	59.9	84.06	0 59	14.72	10.2	24.13	1 48
14.24	0.2	85.21	44 53	13.52	10.0	23.63	48 08	15.38	5.2	4.50	57 39	14.56	59.9	84.11	2 11	14.52	10.4	24.87	4 18
14.96	0.3	85.56	49 10	9.24	10.4	25.36	44 12	14.76	5.7	6.81	56 50	12.96	59.9	84.15	1 41	14.92	10.6	25.58	7 33
14.44	0.7	87.04	43 18	14.52	10.5	25.52	47 21	14.44	6.5	9.94	50 46	14.56	0.0	84.36	6 09	14.48	10.7	26.05	9 52
14.12	1.3	89.22	44 05	14.56	10.6	26.04	45 03	14.56?	7.1	12.23	50 31	15.04	1.1	84.95	4 20	14.56	11.1	27.44	7 58
13.64	1.5	90.29	44 58	14.76	10.6	26.14	40 08	15.38	7.2	12.32	59 12	15.04	1.1	88.66	2 28	14.92	11.2	27.91	8 11
14.92	1.8	91.20	47 30	14.24	11.1	28.06	47 57	15.38	7.2	12.64	51 54	13.96	1.1	88.79	7 44	14.92	11.3	28.05	5 48
14.36	2.0	91.93	48 31	13.96	11.3	28.79	47 03	15.19?	7.6	13.92	58 56	14.52	1.1	88.89	5 34	14.44	11.7	29.87	3 40
14.76	2.3	93.43	46 38	15.04	11.6	29.80	46 57	15.04	7.6	14.14	50 50	14.72	1.4	89.97	3 59	15.38	57.2	74.12	15 26
15.38	2.7	95.03	45 14	15.19	11.6	29.88	44 43	14.84	7.8	14.84	52 48	12.65	1.4	90.04	3 54	12.65	57.7	75.87	18 21
14.12	2.9	95.81	47 13	10.79	11.6	29.95	40 25	15.38	7.9	15.08	55 44	15.38	1.5	90.27	5 48	14.24	57.8	76.31	11 46
13.64	3.0	95.94	44 11	15.38	11.7	30.31	47 00	14.24	8.1	15.90	57 00	14.76	1.9	92.02	4 41	14.76	57.8	76.36	10 17
15.38	3.1	96.58	45 45	14.12	56.6	71.06	58 37	13.76	8.2	16.44	51 52	14.84	2.9	95.59	2 12	14.96	57.9	76.87	10 01
14.36	3.2	96.86	45 25	15.38	56.7	71.51	59 41	12.77	8.7	18.21	59 02	12.84	2.9	95.94	0 31	9.44	58.5	79.13	15 28
10.70	3.4	97.64	40 49	15.38	56.8	71.85	50 50	14.44	8.8	18.54	59 13	14.44	3.1	96.55	7 18	15.38	58.9	80.47	10 54
9.37	4.3	1.29	47 38	15.38	57.3	73.94	56 30	14.44	8.9	19.04	53 34	14.84	3.7	98.78	9 28	12.45	59.1	81.32	15 48
14.76	4.5	1.79	47 50	14.96	57.8	75.70	55 59	14.64	8.9	19.31	53 28	12.65	3.9	99.49	5 35	14.72	59.2	81.52	11 22
13.92	4.6	2.22	40 47	15.38	57.8	75.75	59 42	14.92	9.0	19.69	51 55	12.96	4.4	1.48	6 20	14.04	59.2	81.63	17 26
14.76	4.7	2.78	41 58	14.76	57.9	76.14	52 01	15.19	9.2	20.46	59 14	14.96	4.5	2.05	3 01	12.65	59.3	82.21	10 34
14.56	4.7	2.87	45 35	13.12	58.8	79.53	55 33	14.36	9.3	20.73	52 24	14.64	4.6	2.24	2 37	13.24	59.4	82.45	11 08
14.36	4.8	3.04	48 12	15.38	58.8	79.74	56 15	11.86	9.3	20.83	57 23	13.64	4.6	2.42	3 16	14.24	59.5	82.95	16 23
14.08	5.0	3.78	40 24	15.38	58.9	80.12	51 43	12.25	9.4	21.10	57 47	13.36	4.8	2.93	6 09	15.38	59.7	83.50	18 22
14.04	5.1	4.49	42 53	14.72	59.0	80.65	55 33	14.24	9.7	22.20	50 02	15.19	4.9	3.35	2 18	14.12	59.9	84.48	19 23
15.04	5.2	4.71	45 46	14.16	59.0	80.67	52 01	15.04	10.0	23.51	52 26	12.05	5.0	3.66	7 20	14.72	0.4	86.34	14 46
15.19	5.3	5.08	48 21	14.12	59.3	81.56	53 13	14.84	10.1	23.98	52 33	15.38	5.0	3.78	6 42	15.38	0.5	86.50	11 25
11.86	5.3	5.28	42 29	14.32	59.4	81.95	50 26	14.56	10.2	24.12	51 24	13.92	5.3	4.91	9 09	13.64	0.5	86.53	19 11
14.84	5.5	5.86	41 29	14.84	59.4	82.06	58 31	14.16	10.2	24.15	59 20	15.19	5.4	5.21	8 47	13.92	1.3	89.82	18 34
14.76	5.9	7.40	44 38	14.92?	59.8	83.75	56 58	14.04	10.5	25.52	54 31	14.64	6.0	7.80	5 15	14.64	1.6	90.88	12 16
11.48	5.9	7.46	48 28	10.47	0.1	84.68	51 40	14.52	10.8	26.71	50 42	15.04	6.1	8.00	0 36	14.84	1.8	91.47	15 42
13.88	6.1	8.31	49 30	15.04	0.2	85.19	50 35	14.84	11.1	27.54	59 01	14.32	6.8	10.94	5 18	14.64	1.8	91.52	10 23
15.19	6.2	8.86	49 12	15.38	0.2	85.29	58 42	14.92	11.1	27.70	50 48	13.96	7.3	12.62	7 54	14.44	2.0	92.48	13 31
12.73	6.2	8.87	49 50	11.67	0.5	86.42	56 14	12.05	11.4	28.90	56 33	10.25	7.3	12.72	3 56	15.38	2.1	92.67	15 04
14.92	6.3	9.03	43 13	11.10	0.6	86.59	51 28	14.96	11.5	29.31	53 07	14.52	7.5	13.34	4 23	11.48	2.1	92.79	11 46
11.48	6.3	9.04	41 18	14.76	0.6	86.68	56 40	15.38	11.6	29.73	58 26	12.45	7.6	14.07	3 18	14.56	2.2	93.01	18 00
14.12	6.6	10.25	48 52	15.38	0.8	87.70	55 00	14.36?	11.8	30.57	59 32	14.24	7.7	14.11	6 37	14.72	2.2	93.30	15 42
12.73	6.6	10.41	49 48	13.96	1.2	89.14	53 19	14.76	56.6	71.45	6 54	15.38	7.8	14.51	4 27	11.67	2.3	93.50	18 37
15.38	6.7	10.46	45 14	12.25	1.3	89.32	53 13	15.04	57.0	72.89	0 43	14.96	7.8	14.86	5 38	14.16	2.8	95.41	12 25
12.45	6.9	11.61	46 36	13.96	1.3	89.54	57 39	15.38	57.4	74.61	0 28	14.52	8.2	16.09	7 33	14.36	3.0	96.00	12 23
14.04	7.3	13.06	40 04	13.64	1.6	90.59	52 08	15.04	57.6	75.10	5 58	14.24	8.2	16.30	5 20	14.76	3.0	96.37	16 37
11.10	7.5	13.78	41 40	11.10	2.0	92.20	50 35	15.38	57.7	75.54	8 52	14.32	8.5	17.53	0 06	14.36	3.3	97.29	18 01
13.72	7.9	15.20	48 02	12.45	2.3	93.46	58 42	14.24	58.1	77.37	0 46	14.96	8.7	18.00	7 07	11.86	3.4	97.90	10 52

25 prec. + 184 sec. — 4′ 18″.

8^{h} Area 4. $+75^{\circ}$

401—410				411—420				421—430				431—440				441—445			
Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
10.73	3.6	98.30	12 00	12.65	5.8	7.07	15 25	13.84	8.0	15.31	12 38	15.38	9.8	21.97	11 49	13.96	11.5	28.59	19 08
14.92	3.7	98.80	13 00	15.19	5.9	7.43	12 26	14.96	8.5	17.18	16 24	14.76	10.2	23.53	16 41	13.84	11.5	28.69	19 45
14.44	3.9	99.50	18 13	14.32	6.9	11.02	12 18	12.77	8.5	17.34	14 47	14.64	10.4	24.27	18 39	14.96	11.8	29.88	11 05
14.96	4.0	0.07	12 30	15.38	7.0	11.65	16 41	13.04	8.9	18.57	14 47	14.32	10.9	26.38	12 46	14.76	12.0	30.53	16 43
15.19	4.7	2.80	17 55	14.76	7.1	12.00	10 39	13.64	9.0	19.24	12 52	13.56	11.0	26.55	18 46	14.76	12.1	30.81	16 18
15.19	5.0	3.88	19 54	15.38	7.6	13.69	11 30	10.14	9.1	19.62	19 51	14.12	11.1	27.20	19 51				
15.38	5.0	3.89	10 15	13.16	7.7	14.09	14 59	14.12	9.3	20.11	18 51	15.04	11.2	27.46	17 32				
15.38	5.1	4.38	18 00	12.25	7.7	14.28	13 40	13.76	9.4	20.73	16 52	13.84	11.3	27.77	13 52				
15.38	5.6	6.22	16 05	12.05	7.8	14.53	11 59	12.45	9.5	20.99	12 28	14.04	11.3	27.95	19 01				
14.72	5.7	6.66	14 04	15.38	7.9	14.75	19 22	14.96	9.6	21.21	12 56	14.76	11.4	28.40	11 33				

25 prec. + 184 sec. — 4′ 26″.

12^{h} Area 5. Centre for 1900: $12^{h}\ 28^{m} + 75^{\circ}\ 0'$. $+74^{\circ}$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
15.17	18.7	62.58	23 20	14.98	27.9	99.58	20 37	13.48	36.4	33.66	26 38	14.98	27.4	97.41	39 04	15.17	35.2	28.81	34 47
12.77	19.0	63.84	20 23	11.94	28.4	1.54	20 47	14.20	36.5	34.38	29 11	15.17	27.4	97.78	38 22	13.89	35.6	30.35	31 58
11.41	19.1	64.24	27 24	14.48	29.2	4.93	23 16	13.36	36.9	35.83	24 31	11.59	27.5	98.02	37 58	15.17	36.1	32.28	35 07
14.43	19.3	64.92	26 12	13.68	29.3	5.24	20 30	15.17	37.9	40.03	27 48	14.20	28.2	0.88	38 23	15.17	36.2	32.75	36 45
14.07	19.5	65.72	29 38	12.96	29.5	5.86	24 56	15.17	38.0	40.13	21 18	14.20	28.3	1.08	39 20	14.58	37.2	36.77	36 28
15.17	19.5	65.73	22 19	14.48	29.6	6.53	29 32	12.12	18.3	61.43	38 31	13.89	29.1	4.49	35 57	13.89	18.3	61.71	42 28
13.77	19.9	67.55	22 36	13.28	30.5	10.18	21 44	15.17	19.0	64.18	35 26	13.77	29.5	5.93	34 22	14.02	18.5	62.48	47 59
15.17	20.0	67.85	22 32	12.58	31.0	11.90	20 41	12.77	19.4	65.82	32 11	11.26	29.5	5.99	34 40	12.77	18.5	62.56	47 11
14.11	20.5	69.96	29 48	14.58	31.5	14.21	21 56	14.58	19.6	66.62	31 33	15.17	30.2	8.77	34 47	14.11	18.8	63.80	42 35
14.48?	20.6	70.37	22 19	13.98	31.7	14.78	25 40	14.24	19.6	66.70	36 55	14.33	30.5	10.09	31 09	11.41	18.9	63.94	45 37
14.33	20.9	71.21	24 21	14.33?	31.7	14.82	29 22	15.17	19.7	66.99	37 59	14.11	30.7	10.65	32 15	13.89	18.9	63.95	42 04
11.76	21.3	73.19	23 58	14.43	32.9	19.83	27 37	12.96	20.3	69.21	32 56	14.98	30.9	11.55	39 40	15.17	19.1	65.03	41 40
15.17	21.5	73.70	29 47	11.76	33.0	19.99	26 26	14.24	20.4	69.78	36 28	14.98	31.1	12.39	37 40	11.41	19.7	67.36	46 05
14.24	21.7	74.79	21 31	14.58	33.2	20.84	22 03	14.63	20.7	71.00	30 08	14.20	31.2	12.73	33 28	14.33	19.8	67.54	40 54
15.17	22.3	77.22	29 39	14.73	33.6	22.53	23 36	13.56	21.4	73.73	39 35	14.24	31.3	13.12	32 09	13.60	19.9	67.87	44 25
15.17	22.4	77.62	22 21	14.02	33.9	23.71	25 29	15.17	21.5	74.14	37 32	14.83	31.9	15.59	32 06	13.40	20.0	68.37	40 47
13.48	22.9	79.43	27 38	15.17	34.0	23.99	22 04	14.58	21.6	74.65	38 24	11.76	31.9	15.70	37 28	15.17	20.4	70.01	41 04
12.12	23.2	80.63	22 35	15.17	34.4	25.82	21 33	14.48	22.5	78.17	39 28	15.17	32.2	16.69	35 05	13.48	21.0	72.41	40 06
14.58	23.2	80.82	23 10	13.16	34.6	26.63	28 08	15.17	23.5	82.23	37 30	14.02	32.4	17.58	36 19	14.24	22.1	76.63	40 03
13.48	23.4	81.28	23 43	14.33	34.7	26.91	25 49	10.73	23.9	83.47	31 13	14.43	32.8	19.05	39 14	14.24	22.1	76.77	46 48
14.33	23.8	83.10	27 55	14.24	34.8	27.27	26 20	13.81	25.5	90.09	37 25	13.81	32.8	19.09	30 18	14.43	22.3	77.67	47 57
14.20	24.3	84.94	21 03	14.33	35.0	28.29	21 26	13.77	25.6	90.24	34 21	15.17	32.8	19.30	36 06	14.73	22.4	77.77	47 01
14.58	24.5	85.81	27 56	9.44	35.5	30.25	24 44	13.48?	25.7	90.82	31 12	14.98	32.9	19.52	39 37	14.48	22.4	78.07	41 56
13.36	24.6	86.45	25 39	12.81	35.6	30.51	24 10	13.89	25.8	91.13	39 44	15.17	33.2	20.80	35 25	14.20	22.6	78.74	42 52
14.98	24.9	87.57	29 24	14.11	35.6	30.65	24 40	11.59	25.9	91.50	37 21	14.58	33.4	21.57	37 06	13.52	22.8	79.63	40 30
13.40	25.7	90.79	26 34	10.64	35.8	31.46	25 33	13.81	26.3	93.04	33 22	11.41	34.4	25.63	38 58	13.40	23.3	81.64	46 14
13.89	26.0	91.98	23 53	15.17	35.8	31.57	27 26	11.41	26.5	93.93	37 25	14.20	34.5	25.86	36 16	13.77	23.4	81.93	41 54
14.33	26.3	93.23	28 28	15.17	35.9	31.77	23 29	14.68	26.8	95.08	31 42	15.17	34.6	26.35	30 03	14.73	23.7	82.87	49 21
14.33	27.1	96.20	21 37	14.83	36.2	33.17	20 46	15.17	27.0	96.19	36 59	13.56	34.6	26.42	37 46	11.59	23.7	83.16	43 49
14.73	27.8	99.23	21 40	14.53	36.3	33.44	29 46	14.20	27.2	96.83	35 31	15.17	34.9	27.53	30 06	14.48	23.9	83.78	42 55

25 prec. + 62 sec. — 8′ 17″.

12^h

Area 5.

+ 74°, + 75°

151—200				201—250				251—300				301—350				351—400			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$ $y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
14.73	23.9	83.84	45 45	13.60	19.6	67.12	58 29	15.17	32.8	18.70	55 41	13.00	29.0	3.96	5 24	14.73	23.4	82.30	10 12
13.77	24.0	84.42	46 56	14.33	19.8	67.92	58 27	14.83	33.8	22.64	58 47	13.81	29.5	5.80	5 23	15.17	23.5	82.74	19 54
11.76	24.2	85.12	47 23	14.43	19.8	68.18	50 43	14.48	34.0	23.51	53 25	14.73	29.5	5.93	6 40	13.68	23.5	82.97	14 36
11.41	24.3	85.41	48 14	14.15	19.9	68.35	50 06	13.68	34.9	26.98	55 16	14.02	29.6	6.16	7 42	10.36	24.3	85.90	15 46
15.17	24.8	87.38	48 15	12.50	20.7	71.50	50 21	14.33	35.2	28.12	54 59	14.33	30.0	7.86	6 46	14.98	25.0	88.71	10 18
15.17	25.4	89.64	41 03	14.73	21.5	74.79	54 09	14.02	35.4	28.71	52 34	13.81	30.2	8.35	0 07	14.48	25.2	89.13	18 29
15.17	25.5	89.98	40 02	14.73	21.7	75.44	56 13	12.69	36.0	31.05	52 52	12.50	30.3	8.84	0 08	13.93	25.5	90.54	19 32
10.30	26.0	92.04	40 41	14.73	21.9	76.18	52 55	11.26	36.0	31.35	58 42	11.94	30.3	8.94	0 50	15.17	26.2	93.26	17 10
14.58	26.6	94.41	43 35	15.17	22.0	76.66	57 12	9.12	36.1	31.78	58 44	11.16	30.4	9.38	8 29	14.20	26.5	94.34	10 39
14.98	26.6	94.59	49 38	14.02	22.0	76.70	52 40	14.98	36.6	33.77	59 40	13.08	30.6	10.02	9 12	15.17	27.1	96.74	17 07
13.89	26.6	94.61	47 29	14.83	22.1	76.83	52 10	13.77	36.8	34.32	57 15	15.17	31.3	12.91	5 13	14.48	27.8	99.17	19 10
14.68	26.7	95.03	44 37	14.02	22.1	76.87	56 58	14.63	37.4	36.70	50 27	15.17	32.0	15.63	5 08	14.20	28.1	0.25	11 55
14.98	26.7	95.06	46 40	13.36	22.1	76.93	52 52	11.59	37.5	37.13	57 42	13.20	32.0	15.63	5 38	14.24	28.2	0.59	13 59
9.43	27.3	97.05	49 50	15.17	22.5	78.57	54 17	11.94	37.6	37.41	59 12	14.83	32.5	17.38	7 02	14.43	28.3	1.18	17 58
14.48	27.5	97.89	44 11	15.17	23.0	80.35	51 52	13.5nc	38.0	38.98	58 58	13.00	32.7	17.97	0 40	14.48	28.5	1.74	13 27
14.83	28.4	1.56	43 46	15.17	23.0	80.60	56 04	13.40	38.3	40.18	52 58	12.01	33.0	19.49	0 02	13.68	28.5	1.77	12 57
14.58	28.6	2.38	43 53	14.11	23.2	81.39	51 27	13.56	38.4	40.46	59 50	13.48	33.6	21.72	0 59	14.20	28.5	1.87	18 19
15.17	28.6	2.41	49 56	13.81	24.0	84.25	54 11	14.98	38.5	40.91	51 32	14.48	34.0	23.14	7 14	14.83	28.7	2.84	10 25
13.56	28.7	2.69	42 32	13.81	24.1	84.94	59 55	15.17	18.6	63.83	7 20	9.99	34.3	24.38	2 24	11.59	28.8	3.02	19 13
14.24	29.4	5.59	48 16	12.24	24.2	85.08	51 31	14.43	18.7	63.96	2 00	13.08	34.5	24.93	8 23	15.17	28.9	3.60	17 29
13.36	30.0	7.84	46 01	14.43	24.7	87.29	51 32	11.94	18.7	64.18	3 09	11.76	34.5	25.05	2 25	14.11	29.1	4.35	14 46
13.28	30.5	9.89	45 50	14.43	24.8	87.43	58 00	14.02	18.8	64.63	9 13	12.88	34.6	25.47	5 53	15.17	29.3	5.14	13 33
15.17	30.6	10.31	48 11	13.48	24.9	87.84	50 54	14.58	19.0	65.14	9 34	14.48	35.0	26.96	7 57	14.68?	29.4	5.16	12 04
12.42	30.9	11.48	43 41	13.08	25.4	89.68	54 08	14.58	19.6	67.53	7 53	12.58	35.2	27.68	9 59	12.42	30.4	9.23	12 41
15.17	31.0	11.92	48 30	14.68	25.4	89.69	55 26	14.02	19.9	68.76	1 43	14.48	35.7	29.77	1 10	13.77	30.8	10.82	15 23
13.89	31.1	12.26	46 39	14.20	25.4	89.88	51 32	14.98	21.3	74.04	0 24	13.81	36.2	31.68	4 09	14.83	31.0	11.43	16 30
14.68	31.9	15.33	47 56	15.17	25.5	90.22	59 15	14.73	21.7	75.55	9 27	13.68	36.4	32.44	5 06	15.17	31.7	14.06	18 47
10.35	32.0	15.88	41 38	14.83	25.9	91.73	53 50	14.24	21.8	75.92	9 28	15.17	36.7	33.73	9 03	13.68	31.8	14.58	13 29
14.48	32.1	16.23	45 33	14.24	26.1	92.74	58 45	14.98	21.9	76.38	4 49	11.59	37.1	34.98	2 34	14.98	32.4	16.87	12 39
14.11	32.4	17.39	46 51	12.61	26.5	94.10	54 12	14.33	22.0	76.86	3 47	13.98	37.1	35.20	0 48	13.81	32.9	18.89	13 35
14.73	33.0	19.76	42 07	15.17	26.6	94.44	54 29	15.17	22.5	78.80	5 15	14.20	37.3	35.73	8 12	13.48	33.6	21.35	11 45
13.81	33.3	20.74	45 02	10.82	27.2	96.94	54 55	14.20	22.5	78.85	2 29	11.94	37.3	36.04	6 52	13.36	33.8	22.02	17 31
14.11	33.3	21.06	40 40	14.38	27.8	99.24	50 22	15.17	22.7	79.64	8 43	14.33	37.4	36.35	3 56	13.81	33.8	22.19	11 33
12.3nc	33.5	21.82	44 46	15.17	27.8	99.39	57 01	15.17	22.9	80.42	8 26	11.76	37.5	36.53	1 43	14.98	33.8	22.22	14 50
10.80	34.0	23.83	47 04	14.24	28.0	99.91	56 28	12.50	23.0	80.69	2 25	15.17	37.6	37.23	9 24	11.94	34.2	23.69	11 49
15.17	34.3	24.78	40 49	15.17	28.5	1.79	59 28	12.42	23.6	82.87	6 54	13.60	37.9	38.28	1 03	15.17	35.2	27.59	10 21
14.48?	34.5	25.67	41 15	14.58	28.8	3.17	53 51	14.33	23.6	82.95	6 54	14.48	38.2	39.50	0 31	10.82	36.0	30.38	14 20
11.94	34.7	26.46	42 03	11.76	29.8	6.96	56 59	14.20	23.6	83.01	8 19	14.02	38.3	39.72	4 09	10.40	36.0	30.55	14 52
14.48	34.8	26.96	45 46	12.31	30.2	8.45	55 50	12.88	24.3	85.54	9 42	15.17	38.5	40.40	5 55	11.41	36.1	30.99	12 31
14.48?	35.2	28.34	47 21	14.11	30.4	9.50	56 18	15.17	24.5	86.31	1 28	15.17	18.3	62.92	14 26	13.68	36.3	31.63	13 34
14.73	35.5	29.67	45 52	11.76	30.6	10.27	56 44	15.17	25.0	88.49	4 38	13.56	18.6	63.93	19 56	13.56	36.3	31.73	10 36
14.73	36.6	33.94	46 32	14.33	30.9	11.29	50 22	14.33	25.2	89.23	7 26	15.17	18.8	64.68	10 22	13.16	36.6	32.82	14 42
14.48	37.2	36.26	42 36	14.20	31.1	12.09	58 01	15.17	25.9	91.99	8 05	14.11	19.2	66.42	16 31	14.24	37.0	34.40	12 04
15.17	37.2	36.49	45 01	11.07	31.4	13.31	58 11	12.77	26.2	93.22	5 39	15.17	20.8	72.34	16 58	14.24	37.1	34.80	13 48
14.29	37.4	37.10	40 27	14.68	31.4	13.36	52 27	14.11	26.3	93.28	3 57	14.58	21.0	73.38	17 29	14.58	37.2	35.03	13 24
14.98	37.5	37.36	49 44	13.36	31.5	13.61	57 08	13.16	27.1	96.47	8 22	14.15	21.3	74.44	10 04	14.83	37.3	35.37	17 14
10.88	37.5	37.52	48 32	14.48	31.6	14.03	56 35	13.68	27.5	98.10	8 32	14.43	21.8	76.38	12 32	11.94	38.0	38.08	19 26
13.40	18.2	61.64	52 26	15.17	31.7	14.45	58 01	12.96	27.7	98.79	5 48	14.43	22.1	77.59	16 22	14.20	38.3	39.42	15 16
11.07	18.5	62.93	55 56	15.17	31.7	14.48	52 20	9.16	28.1	0.52	2 35	13.68	22.4	78.77	19 18	12.61	17.8	61.53	23 00
11.59	18.8	63.94	58 41	14.48	32.0	15.81	51 15	10.21	28.7	2.73	0 36	15.17	23.3	82.06	10 06	14.58	18.2	62.99	28 46

25 prec. + 62 sec — 8′ 17″.

12^h Area 5. $+75^\circ$

401—430				431—460				461—490				491—520				521—542			
Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
13.60	18.5	64.27	23 20	14.33	26.4	93.89	22 08	14.48	35.4	27.78	25 40	14.02	22.6	79.95	38 39	14.20	34.2	23.18	37 58
14.20	19.3	67.01	20 08	12.92	26.5	94.39	20 12	14.58	35.4	27.98	28 27	14.68	23.2	81.99	33 40	14.20	34.3	23.44	33 05
13.08	19.4	67.37	23 48	11.76	26.7	94.98	22 37	14.73	36.2	30.78	28 04	11.66	23.5	83.07	30 06	15.17	34.4	23.84	30 21
14.73	19.4	67.67	23 40	15.17	26.9	95.90	24 40	14.43	36.4	31.68	21 24	13.98	23.7	83.86	33 28	13.77	34.6	24.50	34 02
14.48	19.5	67.81	26 28	11.59	27.1	96.76	24 36	14.24	36.7	32.73	28 15	14.48	23.9	84.58	30 29	14.20	34.6	24.77	34 25
15.17	19.7	68.71	23 52	13.98	27.8	99.38	25 01	13.40	37.0	34.13	28 06	14.20	24.4	86.69	38 59	14.20	34.7	24.84	34 42
13.77	20.0	69.62	29 50	14.02	27.9	99.56	26 19	14.73	37.1	34.31	20 14	14.98	24.6	87.13	31 12	14.24	34.8	25.47	37 35
12.31	20.0	69.77	24 34	13.89	28.0	99.94	23 21	14.24	37.1	34.40	24 25	15.17	24.7	87.66	30 07	12.12	34.9	25.65	30 53
14.20	20.6	72.04	20 44	8.09*	28.0	0.08	21 51	12.96	37.3	35.13	27 17	12.88	25.0	88.72	37 37	14.33	35.5	28.06	35 45
13.81	21.2	74.35	26 19	14.33	28.5	2.01	29 59	14.48	37.8	37.16	23 10	14.33	26.1	92.88	38 25	14.02	35.7	28.59	34 47
12.88	21.7	76.31	23 12	14.83	28.7	2.58	28 12	9.67	38.2	38.44	24 00	14.33	26.5	94.26	33 27	14.73	36.2	30.55	32 02
13.28	21.9	76.87	26 05	15.17	29.1	4.10	21 13	15.17	38.6	39.91	25 03	15.17	26.6	94.65	31 21	12.31	36.6	32.24	30 30
15.17	22.7	80.07	24 46	14.43	29.1	4.34	26 20	14.02	17.7	61.47	32 21	14.68	26.6	94.85	32 55	14.98	36.8	33.02	34 09
15.17	23.1	81.43	24 36	14.48	29.5	5.71	25 21	14.83	18.0	62.65	37 33	14.11	27.0	96.23	39 25	8.87	37.1	33.90	33 42
14.73?	23.1	81.61	22 35	14.83	29.7	6.32	29 17	15.17?	18.2	63.42	35 27	13.89	28.1	0.28	32 14	11.41	37.1	34.05	37 26
14.43	23.2	81.75	27 59	13.81	29.8	6.87	21 39	14.33	18.4	64.08	34 26	13.00	28.2	0.87	34 49	13.20	37.2	34.23	35 09
11.24	23.6	83.34	21 58	10.74	30.0	7.59	20 46	13.56	19.3	67.62	39 53	13.68	28.6	2.20	37 45	14.68	37.4	34.95	32 23
14.58	23.8	84.01	24 28	14.83	30.1	8.01	24 33	14.83	19.4	67.72	30 02	14.68	28.7	2.52	36 55	15.17	37.6	35.71	38 43
14.20	23.8	84.03	25 34	14.11	30.7	10.06	27 36	14.73	19.8	69.23	33 43	13.48	29.1	3.93	30 59	13.98	38.2	38.12	31 10
14.83	23.9	84.56	23 12	15.17	31.6	13.71	21 49	13.68	19.8	69.46	38 26	15.17	29.2	4.44	38 56	11.94	38.6	39.62	36 14
13.98	24.1	85.37	23 20	14.48	32.5	17.17	22 12	13.68	19.9	69.58	35 22	14.33	29.8	6.70	31 50	14.43	38.8	40.23	32 31
13.48	24.6	87.08	27 09	15.17	32.8	18.31	21 33	14.43	20.2	70.91	35 35	13.56	30.4	8.84	31 02	14.24	38.9	40.61	36 09
10.84	24.9	88.20	27 00	14.48	32.9	18.39	28 07	14.83	20.4	71.43	31 10	11.41	30.7	9.94	31 17				
11.59	24.9	88.30	24 12	13.20	33.2	19.72	29 01	15.17	20.6	72.19	39 13	13.36	30.7	10.10	30 38				
14.83	25.3	89.66	22 36	13.77	34.1	23.11	21 37	14.33	21.1	74.25	32 50	12.50	31.1	11.49	32 51				
14.11	25.5	90.67	29 10	15.17	34.7	25.29	21 22	14.73	21.7	76.32	34 21	14.83	31.4	12.51	37 42				
15.17	25.6	91.10	24 33	15.17	34.8	25.76	21 24	14.24	21.9	77.12	32 10	13.77	31.7	13.87	38 45				
15.17	26.2	93.17	21 20	14.83	34.9	26.12	28 22	10.39	21.9	77.18	35 01	13.60	32.2	15.80	38 47				
14.73	26.2	93.23	28 40	14.33	35.0	26.41	22 13	14.83	22.0	77.66	38 36	13.40	32.5	16.71	32 20				
14.33	26.3	93.40	28 58	10.62	35.2	27.12	22 59	14.33	22.5	79.33	39 33	14.48	32.8	18.00	32 17				

25 prec. + 61 sec. — 8′ 17″.

16^h Area 6. Centre for 1900: $16^h\ 14^m + 74^\circ\ 50'$. $+74^\circ$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
15.36	6.4	69.54	29 55	15.55	8.3	77.18	21 02	13.93	10.4	85.43	25 05	13.57	12.3	93.12	28 56	15.36	13.5	97.95	28 29
14.02	6.6	70.17	28 34	15.10	8.6	78.43	27 27	14.02	10.4	85.49	29 36	14.41	12.3	93.17	25 42	13.61	13.6	98.19	25 49
14.77	6.8	71.01	23 15	15.55	8.9	79.04	27 23	14.82	10.6	86.27	20 37	15.36	12.5	94.06	22 44	13.79	13.6	98.28	20 03
15.21	7.5	73.85	28 22	14.46	9.3	80.89	29 50	15.36	10.7	86.76	27 47	14.51	12.6	94.48	26 57	14.51	13.6	98.42	23 00
15.21	7.7	74.80	26 01	15.55	9.4	81.65	29 22	15.55	11.4	89.62	27 41	14.16	12.7	94.72	20 53	14.82	14.0	99.91	24 15
14.93	7.8	74.88	22 21	14.56	9.5	81.88	29 23	11.86	11.7	90.70	22 06	14.16	12.8	94.98	27 32	15.10	14.0	0.15	25 49
15.21?	7.8	75.05	28 05	14.82	9.5	81.89	20 49	14.31	11.8	91.29	27 08	15.55	12.8	95.32	28 03	15.04	15.0	3.99	25 44
13.61	7.9	75.50	23 20	14.02	9.5	81.94	20 14	14.16	11.9	91.41	28 18	14.51	12.9	95.52	22 28	13.79	15.5	6.04	20 30
15.04	8.0	75.78	25 36	14.16	10.1	84.21	27 06	12.44	11.9	91.44	27 58	14.51	13.3	97.09	27 48	15.55	15.6	6.43	28 46
13.79	8.3	77.00	25 21	15.55	10.2	84.87	21 38	14.16	12.0	91.94	20 35	15.36	13.4	97.79	21 41	14.82	16.3	9.42	25 43

25 prec. — 30 sec. — 3′ 48″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$\frac{y+50'}{y-10'}$
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
14.02	16.4	9.62	28 45	15.10	14.0	0.20	30 15	15.04	9.4	81.78	47 22	14.66	7.0	72.76	59 21	15.55	21.1	27.53	56 12
14.51	16.6	10.37	21 22	14.41	14.4	1.50	38 56	14.71	9.4	81.79	40 04	14.51	7.7	75.39	54 41	14.26	6.4	70.61	0 09
15.55	16.9	11.78	24 47	12.05	14.6	2.29	39 38	15.55	9.9	83.78	49 15	14.82	7.9	76.19	59 04	15.55	6.8	72.17	2 10
15.55	17.0	12.01	23 09	15.55	14.7	2.81	36 26	14.41	10.0	84.03	40 56	14.66	8.1	76.95	53 50	15.27	6.9	72.42	0 10
13.35	17.7	14.74	27 10	13.05	14.8	3.22	30 02	14.61	10.3	85.30	40 32	14.51	8.5	78.51	59 36	14.51	7.5	74.91	4 31
15.55	17.9	15.88	28 19	14.56	15.2	4.79	31 25	14.88	10.3	85.47	40 10	15.55	8.7	79.29	53 38	14.77	7.8	75.99	2 50
15.36	18.5	18.21	28 40	15.55	15.2	4.83	30 53	14.26	10.4	85.63	46 09	15.55	8.7	79.40	55 53	15.04	7.9	76.58	5 48
15.55	18.8	19.38	20 54	15.55	15.7	6.69	37 24	14.99	10.4	85.73	40 22	14.56	9.3	81.76	58 04	15.55	8.7	79.37	0 08
13.93	18.9	19.61	24 30	14.51	15.7	6.77	36 25	15.04	10.6	86.72	42 21	13.13	9.4	81.87	52 27	14.16	8.7	79.64	0 57
14.82	18.9	19.71	29 12	14.02	15.8	7.32	31 12	10.48	11.3	89.32	48 44	14.16	9.7	83.12	51 12	13.61	9.3	81.77	4 20
14.56	19.0	20.27	23 21	13.39	15.9	7.43	38 16	14.16	11.4	89.56	41 24	13.84	9.8	83.72	53 03	13.05	9.3	81.77	5 09
14.66	19.2	20.93	33 38	14.82	16.0	7.90	37 32	15.55	11.5	89.95	41 06	15.04	10.2	85.02	51 36	15.55	9.3	81.95	5 08
13.61	19.2	20.94	25 40	15.04	16.1	8.27	30 31	11.48	11.5	90.02	43 29	15.55	10.2	85.22	56 14	14.16	9.4	82.17	3 39
13.70	19.2	20.95	28 20	15.36	16.4	9.58	39 30	15.36	11.7	90.76	44 38	15.04	10.5	86.45	51 23	14.66	9.4	82.27	8 37
14.93	19.2	21.07	26 57	10.87	17.2	12.92	36 02	14.77	12.1	92.44	49 58	10.89	10.7	87.11	58 17	15.10	10.0	84.39	8 29
14.41	19.2	21.10	28 36	14.41	17.5	13.80	33 19	12.72	12.6	94.47	48 34	14.99	10.9	87.84	59 56	14.36	10.0	84.71	0 16
15.55	19.3	21.25	22 02	14.16	17.7	14.65	33 08	15.55	12.9	95.78	48 35	14.07	10.9	87.99	54 38	15.55	10.4	86.07	7 10
15.21 ?	19.4	21.61	27 36	15.21	17.8	15.31	33 35	15.36	13.1	96.45	43 53	12.64	11.1	88.62	56 29	14.77	10.5	86.49	3 46
14.16	19.5	22.24	20 30	10.64	18.4	17.54	34 13	14.82	13.2	96.88	41 23	14.82	12.5	93.97	52 50	10.28	10.7	87.31	3 45
13.35	19.5	22.35	21 40	14.56	18.6	18.36	34 57	15.55	13.5	98.02	42 30	14.77	12.6	94.47	59 00	15.55	10.8	87.46	4 15
15.55	19.7	23.00	21 44	15.55	18.7	18.55	37 03	15.55	13.6	98.51	47 12	11.86	12.7	94.95	53 07	15.04	10.8	87.64	1 56
15.21	19.8	23.49	21 59	14.26	18.7	18.76	31 44	13.13	14.7	2.77	48 10	14.56	12.9	95.84	50 04	15.36	11.4	89.86	1 37
15.55	19.9	23.69	21 01	15.55	19.1	20.44	30 39	15.36	15.0	3.90	48 41	14.56	13.2	97.01	59 16	15.36	11.7	91.10	9 17
13.57	20.2	25.07	28 08	14.07	19.4	21.55	33 42	14.82	15.3	5.25	48 49	15.55	13.6	98.56	53 33	15.04	12.2	92.93	0 31
15.10	20.4	25.69	26 56	15.55	19.5	22.02	33 17	14.82	15.8	7.26	49 28	10.10	13.7	98.88	54 17	15.10	12.4	93.87	7 24
15.55	20.5	26.37	23 09	15.55 ?	19.7	22.63	31 22	14.66	15.8	7.29	41 19	14.82	14.0	99.85	52 46	13.84	12.6	94.77	4 39
14.02	7.3	73.12	34 25	14.66	19.7	22.73	36 27	14.93	16.0	7.91	43 25	15.55	14.2	0.59	58 52	12.44	12.9	95.58	2 17
14.82	7.4	73.54	38 37	12.92	19.8	23.18	37 54	13.70	16.1	8.46	47 02	14.51	14.4	1.69	55 59	15.04	13.0	96.02	4 36
12.84	7.4	73.58	36 12	15.55	20.1	24.48	37 32	13.39	16.1	8.46	47 11	14.51	14.9	3.57	53 37	13.48	13.4	97.58	6 02
15.04	8.4	77.84	31 08	14.77	20.3	25.29	39 58	14.82	16.4	9.47	41 54	13.93	15.2	4.88	56 47	15.55	14.0	0.08	5 37
14.82	8.8	79.46	37 58	12.24	20.5	25.94	32 38	12.05	17.0	11.64	42 05	15.36	15.5	5.84	50 30	15.10	14.3	1.21	4 50
15.27	9.1	80.40	30 34	14.93	20.5	26.04	36 01	13.84	17.7	14.51	45 51	15.04	16.9	11.25	53 52	15.55	14.5	2.10	8 45
14.82 ?	9.9	83.67	37 00	14.51	20.6	26.22	31 59	12.64	18.0	15.73	45 49	14.07	17.1	12.19	52 23	11.86	14.5	2.10	2 29
15.04	10.2	84.81	32 33	13.48	21.0	27.86	38 30	14.56	18.1	16.35	48 06	14.82	17.5	13.66	57 59	13.35	14.8	2.94	6 44
14.77	10.3	85.41	35 00	12.97	21.0	28.06	37 58	14.02	18.3	17.15	40 58	14.56	17.9	15.30	59 23	14.77	14.9	3.58	3 07
12.76	10.4	85.65	36 53	15.36	21.2	28.69	37 26	13.70	18.4	17.39	45 13	14.77	18.2	16.29	51 47	15.36	14.9	3.60	9 40
15.55	11.0	87.86	33 28	11.67	6.2	69.40	45 36	14.82 ?	18.8	18.74	42 55	15.55	18.2	16.54	51 44	15.21	15.0	3.87	8 56
13.61	11.0	88.12	37 27	14.82	6.9	71.97	49 22	15.10	18.8	19.07	41 25	14.93 ?	18.3	16.61	51 18	15.10	15.6	6.00	1 32
15.36	11.3	89.07	37 51	13.48	7.0	72.22	40 34	14.82 ?	19.3	20.77	43 25	14.93	18.6	17.81	57 30	15.36	15.7	6.74	7 48
15.55	11.4	89.58	32 40	15.10	7.0	72.52	47 10	15.21	20.0	23.79	46 34	14.07	18.6	18.04	51 47	11.48	15.9	7.26	5 35
12.92	11.4	89.76	31 14	14.41	7.3	73.43	49 42	14.66	20.3	24.72	46 05	14.66	18.7	18.42	52 09	12.84	16.3	8.80	0 57
13.61	11.4	89.78	34 55	15.55	7.4	74.02	45 51	15.21	20.4	25.14	45 23	10.74	19.6	22.03	56 04	14.93	16.6	9.95	8 45
13.84	11.4	89.78	33 01	14.82	7.7	75.11	48 42	14.82	20.7	26.45	45 33	14.82	19.7	22.08	52 35	12.56	16.7	10.27	8 42
14.02	12.0	92.12	30 21	15.55	8.0	76.48	45 53	14.61	21.1	27.89	49 34	14.82	19.7	22.13	50 40	14.51	16.8	11.01	5 43
14.46	13.0	96.18	30 06	14.51	8.2	76.94	47 32	15.55	21.1	28.09	41 01	14.51	19.7	22.18	56 30	14.77	16.9	11.26	3 29
14.82	13.4	97.41	38 42	15.55	8.2	77.00	40 47	13.57	6.5	70.64	59 07	14.51	19.7	22.41	52 01	14.31	17.6	13.94	5 29
15.21	13.4	97.50	35 52	15.55	8.7	79.06	43 15	15.55	6.5	70.91	54 04	14.82	20.0	23.51	51 28	15.55	18.1	15.86	8 26
14.82	13.8	99.23	36 49	15.21	8.8	79.47	40 36	15.21	6.6	70.98	51 42	14.66	20.1	23.94	59 23	14.82	18.2	16.10	8 37
14.66	14.0	99.87	30 10	15.55	8.8	79.56	45 08	14.02	6.9	72.16	52 28	14.66	20.3	24.54	51 04	13.84	18.2	16.34	4 05
15.10	14.0	0.01	30 34	14.56	8.9	79.90	41 07	13.26	7.0	72.50	56 44	14.51	20.5	25.50	50 06	14.41	19.0	19.39	1 25

25 prec. — 33 sec. — 3′ 44″.

16^{h} Area 6. $+75°$

301—320				321—340				341—360				361—377							
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$				
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″				
14.31	19.7	22.01	4 03	14.82	8.6	79.43	12 52	15.55	12.7	94.93	10 51	11.67	17.6	13.68	17 49				
12.24	20.0	23.35	3 23	10.21	8.7	79.80	12 41	14.66	12.7	94.99	18 00	15.10	17.9	14.95	17 25				
14.51	20.2	24.11	7 27	14.82	8.9	80.60	14 24	15.21	13.1	96.56	16 34	14.16	18.1	15.75	10 08				
14.66	20.4	24.65	0 56	13.61	8.9	80.62	15 00	13.05	13.2	96.86	18 42	15.21	18.3	16.58	11 36				
13.13	21.0	27.07	3 07	12.92	9.0	80.99	16 29	13.79	13.2	96.91	15 23	14.77	18.4	16.64	14 28				
14.41	21.1	27.37	9 07	13.13	9.2	81.58	19 22	13.57	13.3	97.43	14 21	10.79	18.4	16.84	19 18				
12.05	21.2	27.84	5 43	14.77	9.2	81.59	14 05	15.55	14.1	0.37	16 58	10.33	18.5	17.33	18 58				
14.26	21.3	28.34	4 29	15.36	9.5	82.68	17 54	15.21	14.2	0.75	17 56	10.75	18.7	18.09	18 40				
14.93	6.0	69.61	19 44	15.55	9.6	83.15	17 35	14.77	14.3	1.01	18 48	12.72	19.0	19.11	11 10				
14.77	6.6	71.60	19 26	9.89	9.7	83.74	16 19	14.51	14.3	1.33	16 17	15.55	19.1	19.55	10 04				
14.26	6.6	71.69	10 47	15.55	10.1	85.12	16 14	14.51	14.5	1.79	16 06	14.93	19.3	20.25	10 51				
14.02	6.6	71.78	12 52	12.44	10.5	86.59	19 04	11.67	14.5	1.87	12 33	13.93	19.4	20.51	15 56				
14.66	7.0	73.12	16 40	14.66	10.7	87.45	12 21	15.55	14.7	2.67	18 17	14.82	19.4	20.76	16 58				
13.39	7.1	73.82	12 15	15.55	10.9	88.11	18 31	14.82	15.6	6.25	11 07	12.24	20.0	22.75	13 51				
13.18	7.3	74.32	15 17	13.48	12.1	92.70	19 28	14.07	16.1	8.01	18 10	14.66	20.0	22.79	13 45				
14.61	7.4	74.89	10 02	13.70	12.1	92.74	19 23	13.57	16.3	8.87	13 19	14.66	21.4	28.19	10 13				
14.16	7.7	75.81	19 45	14.82	12.3	93.56	11 47	15.36	16.5	9.55	19 36	11.30	21.4	28.22	11 32				
14.41	7.9	76.60	10 06	14.56	12.4	94.04	14 55	15.10	16.7	10.15	17 03								
14.07	8.3	78.18	13 38	12.97	12.5	94.38	18 26	13.84	17.4	13.09	18 47								
13.79	8.5	78.94	17 15	14.66	12.6	94.48	14 16	12.05	17.5	13.33	13 14								

25 prec. — 37 sec. — 3′ 44″.

20^{h} Area 7. Centre for 1900: $20^{h}\ 24^{m} + 75°\ 10'$. $+74°$

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
14.29	17.3	73.60	47 20	15.25	18.4	78.08	49 22	12.61	20.8	87.47	41 05	14.29	23.0	95.94	46 19	14.55	25.0	3.80	47 48
15.98	17.3	73.64	49 24	14.50	18.4	78.10	43 47	16.32	20.9	87.92	49 37	16.32	23.1	96.31	44 53	13.89	25.0	3.92	46 05
14.84	17.3	73.64	41 24	16.32	18.5	78.35	41 30	16.32	21.4	89.83	42 53	16.32	23.2	97.04	45 29	14.55	25.0	4.03	44 43
16.32	17.4	73.76	40 36	15.13	18.5	78.39	47 55	15.98	21.5	90.24	48 32	14.50	23.3	97.23	44 32	16.32	25.1	4.39	41 16
13.32	17.4	74.02	43 35	16.32	18.5	78.41	48 23	16.32	21.7	90.84	43 17	15.25	23.4	97.52	45 16	16.32	25.1	4.53	49 39
16.32	17.4	74.06	40 06	14.78	19.2	81.23	47 05	16.32	21.9	91.58	44 50	14.13	23.5	97.87	44 21	16.32	25.3	5.05	45 11
16.32	17.5	74.18	46 51	13.75	19.4	81.87	44 30	14.55	22.0	92.31	46 03	15.13	23.6	98.44	49 34	16.32	25.4	5.35	45 19
14.55	17.5	74.41	44 29	15.44	19.6	82.49	47 16	15.25	22.1	92.52	44 34	16.13	23.8	99.17	44 17	15.13	25.4	5.41	46 24
14.55	17.6	74.71	48 53	16.32	19.7	82.97	46 12	15.98	22.1	92.62	49 57	16.13	23.8	99.34	48 03	14.78	25.6	6.46	45 20
14.95	17.6	74.73	40 35	16.32	19.7	83.22	44 43	15.44	22.2	92.96	40 18	15.98	23.9	99.53	40 31	15.13	25.8	7.27	44 24
15.44	17.7	75.24	46 34	13.23	19.9	83.73	49 15	15.98	22.3	93.11	44 49	10.70	23.9	99.55	44 03	14.66	25.9	7.39	49 17
16.32	17.8	75.56	43 59	16.32	20.0	84.07	43 21	15.44	22.3	93.23	40 42	14.90	23.9	99.56	49 45	16.32	25.9	7.48	40 41
14.66	17.8	75.67	48 50	16.32	20.0	84.14	46 36	15.57	22.4	93.64	46 59	15.25	24.0	99.90	45 05	14.24	25.9	7.61	44 36
14.78	17.9	76.10	40 47	13.44	20.3	85.50	43 31	15.38	22.4	93.69	46 24	16.32	24.0	0.03	41 46	15.98	25.9	7.63	40 07
15.07	18.0	76.24	47 23	15.07	20.4	85.88	45 14	15.25	22.5	94.01	40 49	14.55	24.2	0.60	44 59	14.55	25.9	7.67	46 16
14.50	18.1	76.59	41 51	15.73	20.5	86.05	48 39	15.13	22.5	94.03	41 40	13.75	24.3	1.23	45 03	13.57	26.0	7.88	49 55
10.76	18.1	76.81	43 14	15.25	20.6	86.60	40 03	16.32	22.5	94.21	45 04	16.32?	24.7	2.61	44 09	15.38	26.0	7.91	42 12
16.32	18.2	77.07	42 29	16.13	20.7	87.05	42 48	15.73	22.6	94.64	42 10	14.55	24.7	2.62	41 52	14.13	26.2	8.71	40 58
12.74	18.4	77.72	44 26	13.57	20.7	87.07	44 07	14.39	22.7	94.88	41 42	15.73	24.9	3.43	49 20	8.87*	26.3	8.93	46 47
15.07	18.4	77.73	43 34	15.38	20.8	87.23	49 52	14.66	23.0	95.90	41 34	16.13	24.9	3.50	42 57	15.38	26.3	9.22	44 34

25 prec. — 23 sec. + 4′ 51″.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
15.98	26.6	10.23	43 24	13.80	30.5	25.69	46 30	14.50	20.6	86.81	58 45	11.91	24.3	1.24	52 29	14.04	28.0	15.44	58 41
11.48	26.6	10.23	40 46	15.13	30.6	26.18	40 39	16.32	20.6	86.86	59 40	16.32	24.4	1.36	51 45	14.78	28.0	15.68	59 23
16.32	26.8	11.15	48 44	14.55	30.8	26.99	46 11	14.55	20.7	87.16	57 14	14.13	24.5	2.08	56 51	13.75	28.3	16.82	51 46
14.95	26.9	11.44	43 42	14.84	31.0	27.60	46 30	14.55	20.7	87.18	51 19	16.32	24.7	2.74	55 20	16.32	28.5	17.38	57 05
16.32	26.9	11.54	46 05	14.24	31.1	28.06	47 55	15.25	20.8	87.42	51 50	15.98	24.7	2.87	57 43	14.39	28.5	17.66	54 40
16.32	27.0	11.69	49 07	14.66	31.1	28.06	40 38	15.25	20.8	87.58	57 08	14.66	24.8	3.08	57 06	14.04	28.6	17.83	52 46
16.32	27.0	11.98	46 26	14.34	31.2	28.48	49 34	14.55	20.9	87.83	50 48	14.84	24.8	3.26	51 44	13.07	28.6	18.08	50 06
15.73	27.2	12.47	46 43	16.32	31.3	28.92	41 32	16.32	21.1	88.56	54 31	16.32	24.9	3.36	52 17	16.32	28.7	18.50	53 11
16.32	27.2	12.59	47 22	8.58	31.4	29.19	40 38	16.32	21.1	88.78	55 44	16.13	24.9	3.44	50 18	13.75	28.8	18.61	50 41
14.66	27.4	13.53	44 38	14.13	31.4	29.19	42 41	15.82	21.2	89.19	56 49	15.73	25.0	3.79	58 12	15.98	28.8	18.65	56 37
14.39	27.5	13.64	42 34	16.32	31.5	29.69	43 32	14.50	21.3	89.37	56 13	13.44	25.0	3.90	55 30	14.66	28.8	18.84	59 48
14.13	27.5	14.00	44 06	14.39	31.8	30.72	41 48	12.82	21.4	89.87	57 37	15.82	25.0	3.97	56 08	15.38	28.8	18.86	55 29
15.07	27.6	14.06	47 03	15.82	16.7	71.40	57 17	15.38	21.5	90.10	52 56	14.84	25.1	4.40	56 38	15.98	28.9	19.01	54 41
14.95	27.6	14.19	47 57	15.73	16.7	71.45	59 48	15.38	21.5	90.21	54 01	14.84	25.1	4.48	52 51	16.32	28.9	19.04	52 58
12.82	27.6	14.27	42 55	15.13	16.7	71.52	56 14	10.75	21.6	90.48	59 46	14.66	25.3	4.97	56 35	16.32	28.9	19.22	52 44
13.02	27.7	14.41	40 26	13.66	16.7	71.60	50 06	14.04	22.0	92.24	56 41	13.75	25.3	5.09	51 41	15.25	29.0	19.66	58 44
15.44	27.7	14.70	44 00	16.32	16.7	71.69	53 07	16.32	22.1	92.40	55 51	14.78	25.4	5.29	57 01	16.32	29.1	19.95	59 52
16.32	27.8	15.04	43 27	16.32	17.0	72.84	58 38	15.73	22.1	92.55	56 58	15.57	25.4	5.63	54 14	14.04	29.1	20.04	53 10
15.57	27.9	15.39	48 28	16.32	17.1	72.88	59 11	16.32	22.2	92.82	53 34	14.84	25.5	5.78	51 15	15.25	29.2	20.37	57 53
10.35	28.2	16.71	46 06	10.67	17.1	73.16	55 37	14.78	22.2	93.13	51 49	14.13	25.5	5.93	55 18	15.82	29.2	20.48	58 08
10.19	28.4	17.32	49 34	14.66	17.2	73.27	50 20	15.44	22.3	93.23	58 52	15.13	25.6	6.20	54 39	15.07	29.4	20.91	53 25
15.25	28.4	17.46	43 09	15.13	17.2	73.30	54 10	16.32	22.3	93.31	55 49	12.82	25.7	6.45	53 06	15.73	29.4	21.04	52 08
14.66	28.4	17.55	40 32	15.44	17.2	73.33	53 58	15.25	22.4	93.57	51 52	11.20	25.7	6.56	55 29	15.98	29.6	21.71	52 42
15.25	28.5	17.57	47 40	12.01	17.5	74.62	54 07	16.32	22.5	94.10	55 28	14.55	25.8	7.16	50 33	14.84	29.6	21.85	56 21
14.95	28.5	17.59	48 05	15.98	17.6	75.13	57 11	15.73	22.5	94.20	54 54	12.01	25.9	7.24	55 29	12.01	29.7	22.28	57 17
16.13	28.6	18.24	47 30	15.98	17.9	76.12	53 07	16.32	22.6	94.40	50 54	13.15	25.9	7.48	59 39	14.78	29.8	22.45	58 32
14.84	28.7	18.56	45 15	15.98	17.9	76.26	52 39	16.32	22.6	94.58	58 34	16.32	25.9	7.52	54 55	16.32	29.8	22.63	53 04
12.82	28.8	18.78	46 58	16.32	18.0	76.54	58 57	14.95	22.6	94.72	56 04	15.98	26.0	7.69	53 19	14.84	29.8	22.73	51 20
16.32	28.8	18.79	40 17	14.13	18.0	76.63	54 39	12.82	22.7	94.77	56 36	15.25	26.0	7.75	58 52	16.32	30.0	23.32	53 14
14.66	28.8	18.95	49 07	15.57	18.1	76.84	53 13	16.32	22.7	95.08	50 40	14.04	26.0	7.91	56 26	14.66	30.0	23.45	58 57
15.98	28.8	19.09	41 45	15.82	18.1	77.15	52 52	15.57	22.8	95.26	56 57	14.29	26.1	8.04	53 00	15.98	30.1	23.68	57 29
15.98	28.9	19.16	41 06	13.36	18.4	78.09	51 06	14.78	22.8	95.48	53 44	14.24	26.1	8.10	51 06	15.98	30.1	23.72	52 44
14.55	29.0	19.86	42 04	16.32	18.5	78.38	52 33	14.95	23.0	96.11	53 51	16.32	26.2	8.41	52 14	12.94	30.2	24.16	52 55
15.07	29.1	20.07	47 41	15.57	18.7	79.48	56 43	15.44	23.1	96.48	57 35	11.45	26.2	8.73	56 25	16.32	30.2	24.35	51 41
16.32	29.4	21.26	48 09	15.25	18.9	80.03	54 05	16.32	23.2	96.74	50 57	14.84	26.3	9.10	50 58	15.98	30.4	24.87	54 55
14.95	29.4	21.28	41 46	14.29	18.9	80.03	57 01	14.13	23.2	96.75	59 34	13.99	26.5	9.71	51 06	11.57	30.4	25.11	56 19
11.55	29.4	21.39	45 09	16.32	19.3	81.54	58 11	14.66	23.4	97.76	54 49	15.73	26.5	9.89	56 07	12.41	30.6	25.80	57 21
15.25	29.5	21.67	43 14	16.32	19.5	82.56	59 56	14.66	23.4	97.78	58 09	16.32	26.7	10.65	52 16	16.32	30.8	26.51	53 41
16.32	29.6	22.00	47 33	14.55	19.6	82.64	53 43	11.22	23.7	98.83	54 06	14.29	26.7	10.66	54 18	12.82	30.8	26.62	54 18
16.32	29.6	22.15	47 42	10.27	19.7	83.03	54 59	14.95	23.8	99.27	58 55	15.82	26.8	10.95	56 08	15.73	30.9	26.77	56 44
16.32	29.7	22.63	48 31	16.32	19.9	83.88	51 18	16.13	23.8	99.36	53 24	14.55	26.8	11.02	55 25	13.02	30.9	26.83	54 24
13.99	29.8	22.89	43 26	15.13	20.2	84.99	50 27	15.98	24.0	99.88	58 05	15.38	26.9	11.25	56 56	15.44	31.0	27.41	53 58
16.32	29.8	22.99	41 13	16.13	20.2	85.14	50 03	16.13	24.0	99.88	59 35	15.73	27.0	11.70	53 37	15.44	31.1	27.71	58 43
16.32	29.8	23.04	45 33	16.32	20.4	85.75	54 53	16.32	24.0	0.04	55 53	15.73	27.2	12.61	57 15	15.38	31.3	28.34	51 42
16.32	29.8	23.04	40 25	15.13	20.4	85.87	53 11	15.25	24.1	0.23	58 56	16.32	27.4	13.14	50 30	16.13	31.3	28.67	51 04
15.98	29.9	23.39	43 25	16.32	20.5	86.33	55 24	15.07	24.1	0.28	55 44	14.39	27.5	13.71	51 04	13.80	31.3	28.67	59 12
14.78	30.2	24.33	46 49	16.32	20.5	86.38	50 46	15.65	24.1	0.56	59 55	15.44	27.6	13.86	58 55	13.66	31.5	29.19	56 36
13.02	30.2	24.57	42 56	16.13	20.5	86.50	59 50	15.38	24.2	0.68	52 43	16.13	27.7	14.30	56 15	15.38	31.5	29.23	52 16
13.75	30.4	25.38	41 41	16.32	20.6	86.54	51 01	12.41	24.3	1.15	56 09	13.57	27.7	14.50	56 21	15.82	31.5	29.33	51 37
14.78	30.5	25.61	48 51	15.44	20.6	86.70	55 42	15.25	24.3	1.16	51 43	14.78	27.9	15.04	55 14	15.25	31.5	29.34	56 44

25 prec. — 24 sec. + 4′ 55″.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	$y+70'$ / $y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
15.25	31.5	29.34	54 55	14.84	20.9	87.96	6 22	16.32	25.4	5.42	7 49	14.24	29.9	22.74	6 06	14.13	18.7	79.89	11 32
15.13	31.5	29.35	55 24	16.13	21.0	88.27	4 06	15.38	25.6	6.21	3 30	16.32	29.9	22.87	9 50	15.25	18.8	79.97	12 42
15.57	31.6	29.74	55 48	16.13	21.2	89.01	6 08	15.44	25.6	6.23	6 54	13.23	30.0	23.03	2 00	15.82	18.8	80.06	12 04
14.78	31.7	29.87	57 33	14.04	21.2	89.17	0 41	15.25	25.7	6.54	1 39	13.19	30.0	23.24	9 36	15.57	18.8	80.08	14 11
15.44	31.7	29.95	51 43	16.32	21.4	90.03	3 47	13.57	25.7	6.58	0 35	13.44	30.0	23.32	6 33	15.57	18.8	80.12	14 20
15.25	31.7	30.08	55 42	16.32	21.6	90.57	7 54	15.82	25.8	6.94	2 05	15.90	30.2	23.92	0 14	14.50	18.8	80.20	13 58
15.13	31.8	30.35	57 49	16.32	21.9	91.84	0 14	15.25	25.8	7.03	3 48	13.89	30.2	23.98	6 24	15.82	18.9	80.53	16 16
12.61	31.8	30.59	52 28	15.98	21.9	91.91	9 27	15.38	26.1	7.96	0 44	14.13	30.3	24.48	2 44	15.38	19.1	81.10	14 54
15.07	31.9	30.91	52 25	16.32	22.0	92.18	4 54	15.13	26.1	8.08	3 52	13.75	30.4	24.66	6 57	14.66	19.1	81.36	13 26
15.38	16.5	71.16	9 28	15.51	22.2	93.04	0 09	14.55	26.2	8.36	0 38	16.32	30.5	24.98	1 11	15.44	19.3	81.98	14 27
13.36	16.5	71.23	8 53	14.66	22.3	93.29	0 50	16.13	26.4	9.33	6 53	14.84	30.5	25.13	6 31	13.44	19.3	82.00	10 33
16.13	16.7	71.80	7 18	15.25	22.3	93.39	9 33	11.10	26.5	9.58	5 07	16.32	30.6	25.32	4 49	11.71	19.4	82.32	14 12
15.82	16.8	72.28	8 00	13.66	22.3	93.41	2 22	16.32	26.5	9.66	7 31	14.66	30.8	26.24	3 28	14.66	19.4	82.34	12 34
15.25	17.1	73.24	8 32	16.32	22.3	93.51	5 45	16.32	26.5	9.71	7 37	16.32	30.8	26.38	4 00	14.04	19.4	82.42	18 14
14.39	17.4	74.37	6 23	13.99	22.4	93.92	7 33	15.07	26.6	9.93	6 13	16.32	30.8	26.38	7 14	15.44	19.6	83.15	16 27
11.59	17.4	74.47	4 42	16.32	22.6	94.75	1 41	13.66	26.6	9.97	7 54	15.65	30.9	26.61	0 33	11.86	19.6	83.17	15 12
14.04	17.5	74.76	6 17	14.84	22.8	95.22	4 23	14.04	26.6	10.22	0 51	16.32	31.0	26.86	9 01	14.50	19.7	83.70	16 00
15.07	17.6	75.26	8 42	15.25	22.8	95.30	3 02	15.82	26.7	10.58	1 15	16.32	31.0	27.10	7 03	10.15	19.8	84.09	14 48
16.32	17.6	75.48	4 50	16.32	22.9	95.85	8 53	16.32	26.9	11.07	2 52	16.32	31.0	27.20	6 33	14.13	19.8	84.14	12 57
16.32	17.9	76.52	7 33	16.32	23.0	95.95	0 40	15.51	26.9	11.08	0 16	15.38	31.5	28.88	1 23	15.07	2.00	84.65	12 36
10.08	17.9	76.57	2 24	13.75	23.0	96.25	4 31	16.32	27.0	11.39	8 23	15.57	31.5	29.08	2 35	11.33	20.0	84.66	16 05
13.89	18.1	77.29	6 24	12.49	23.1	96.39	0 27	16.32	27.0	11.70	6 54	14.66	31.7	29.91	9 19	14.95	20.0	84.81	12 41
16.32	18.2	77.45	8 18	14.50	23.2	96.81	6 52	15.25	27.1	12.02	6 08	15.07	31.8	30.23	6 53	14.29	20.1	85.16	19 26
13.89	18.2	77.58	6 18	15.38	23.2	97.00	6 13	15.13	27.2	12.30	9 40	13.23	31.9	30.67	9 00	14.50	20.2	85.33	16 04
15.57	18.6	79.29	3 12	14.24	23.3	97.33	1 42	15.07	27.3	12.86	1 08	15.82	16.5	71.34	19 24	15.44	20.2	85.35	18 56
14.34	18.7	79.48	0 33	15.57	23.3	97.44	5 54	16.32	27.4	12.97	9 28	14.13	16.7	72.15	13 08	14.66	20.4	86.29	11 21
16.32	18.7	79.70	0 21	16.32	23.4	97.55	0 17	14.55	27.6	13.95	0 58	16.13	16.8	72.48	18 46	15.98	20.6	86.94	19 53
16.32	18.8	79.77	6 10	15.13	23.4	97.60	1 06	14.45	27.7	14.15	0 35	15.13	16.9	72.79	11 36	15.98	20.6	86.94	19 45
14.66	18.9	80.15	8 08	11.28	23.5	98.08	8 19	15.57	27.7	14.29	6 35	16.32	17.1	73.76	12 04	13.75	20.6	87.18	16 48
14.34	19.0	80.52	9 59	14.66	23.7	98.91	0 11	16.32	27.7	14.46	5 28	15.13	17.1	73.78	16 38	16.32	20.8	87.97	13 04
14.50	19.0	80.61	5 08	12.41	23.7	98.97	6 26	15.25	27.8	14.55	7 39	16.13	17.2	74.06	15 44	13.44	20.9	88.20	18 58
15.44	19.0	80.73	5 13	13.66	24.2	0.84	1 40	15.98	27.8	14.62	5 35	14.84	17.4	74.62	17 22	14.95	20.9	88.25	12 12
16.32	19.1	80.94	0 25	14.84	24.3	1.14	2 12	12.01	27.8	14.68	8 48	13.57	17.4	74.70	15 42	14.84	21.0	88.52	11 52
15.25	19.3	81.75	9 52	9.68*	24.3	1.29	7 21	14.39	27.9	15.23	2 36	14.18	17.4	74.79	19 47	14.29	21.0	88.62	14 37
15.73	19.4	82.18	1 03	14.39	24.4	1.46	4 27	16.13	28.2	16.22	1 17	16.32	17.5	75.08	10 31	15.98	21.1	88.91	12 41
16.32	19.4	82.30	8 46	14.66	24.4	1.48	2 03	14.78	28.2	16.29	4 10	10.57	17.6	75.45	14 30	14.66	21.1	89.06	12 46
15.82	19.5	82.51	8 44	16.32	24.4	1.58	9 12	13.11	28.6	17.63	4 54	14.13	17.6	75.51	12 46	14.55	21.2	89.40	14 10
11.45	19.5	82.66	9 31	15.51	24.4	1.72	9 40	16.32	28.8	18.68	7 03	15.98	17.6	75.67	14 05	12.90	21.2	89.43	18 32
15.73	19.5	82.68	1 35	16.13	24.5	1.88	1 45	10.21	28.9	18.74	2 03	15.98	17.7	75.94	10 56	16.32	21.3	89.62	13 55
16.32	19.8	83.62	8 12	16.32	24.5	1.96	8 41	16.32	28.9	19.06	4 54	16.32	17.7	75.95	13 25	16.32	21.4	90.01	19 06
16.32	20.0	84.41	5 34	16.32	24.6	2.39	3 35	16.32	29.0	19.19	7 30	14.50	17.9	76.54	16 48	15.57	21.6	91.02	11 30
13.66	20.1	84.94	0 14	15.98	24.6	2.48	3 49	16.32	29.1	19.59	4 07	14.95	17.9	76.67	18 40	15.57	21.7	91.29	15 35
10.21*	20.3	85.59	3 19	16.32	24.8	2.92	8 00	12.82	29.2	20.02	5 24	14.29	17.9	76.69	17 34	16.13	21.8	91.46	17 08
15.98	20.3	85.77	9 21	16.13	24.8	3.05	1 24	14.29	29.4	20.82	0 23	15.44	18.0	76.91	15 00	16.32	21.8	91.79	19 28
15.13	20.4	86.28	3 13	15.73	24.8	3.10	0 57	13.80	29.5	21.09	7 49	14.66	18.0	77.21	10 16	16.32	21.9	91.83	15 25
14.29	20.6	87.02	0 00	16.32	24.8	3.16	3 54	15.25	29.5	21.25	0 53	16.32	18.1	77.44	17 18	15.25	22.1	92.58	18 08
15.82	20.7	87.21	4 28	16.32	25.1	4.15	9 04	16.13	29.8	22.41	3 06	16.32	18.4	78.45	10 24	15.82	22.1	92.66	18 14
16.32	20.7	87.44	6 25	15.25	25.3	4.89	3 32	14.50	29.8	22.57	1 43	12.82	18.5	78.83	14 53	13.66	22.3	93.34	18 26
15.98	20.8	87.70	6 25	14.66	25.4	5.23	3 33	15.13	29.9	22.65	6 00	14.13	18.5	78.86	19 44	16.32	22.5	94.18	10 56
16.32	20.8	87.70	9 33	14.84	25.4	5.32	7 53	16.32	29.9	22.74	7 32	11.05	18.6	79.26	12 10	14.84	22.6	94.81	13 54

25 prec. — 25 sec. + 4′ 55″.

601—650				651—700				701—750				751—800				801—850			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
15.07	22.8	95.23	16 46	14.24	27.3	12.64	14 50	16.13	30.9	26.33	14 06	14.13	19.1	81.65	26 28	15.44	22.9	95.80	20 50
14.66	22.8	95.40	18 46	15.44	27.5	13.46	12 45	16.32	31.0	26.62	11 22	15.13	19.2	81.88	25 49	15.13	22.9	95.95	25 35
15.25	22.8	95.40	11 21	15.73	27.7	14.12	18 44	15.82	31.2	27.31	19 43	14.78	19.2	81.92	23 00	14.78	23.2	96.94	28 16
14.78	22.8	95.44	10 14	14.84	27.7	14.21	19 26	15.57	31.2	27.32	17 04	15.13	19.5	82.93	20 48	16.32	23.4	97.84	28 47
14.78	22.8	95.47	13 44	12.74	27.8	14.38	15 36	16.32	31.2	27.42	14 08	15.57	19.8	84.05	24 57	16.32	23.6	98.46	26 49
14.95	22.8	95.54	12 13	15.44	27.8	14.65	16 19	16.13	31.2	27.56	13 36	15.57	19.9	84.49	26 14	14.04	23.6	98.51	22 33
14.95	23.2	96.77	16 18	15.57	28.1	15.68	16 50	16.32	31.2	27.58	10 40	15.82	19.9	84.56	29 31	15.38	23.6	98.62	26 12
14.84	23.2	96.93	12 21	16.13	28.2	16.01	15 25	16.32	31.3	27.78	14 52	14.66	20.0	84.91	25 02	13.75	23.7	98.89	25 14
14.24	23.3	97.22	10 13	14.29	28.4	16.66	17 07	16.32	31.3	27.95	11 02	16.32	20.0	84.97	23 52	15.82	23.7	98.99	22 59
16.13	23.4	97.87	14 52	15.25	28.5	17.16	12 46	15.25	31.4	28.07	18 46	14.84	20.1	85.17	25 49	15.25	23.8	99.07	28 34
15.25	23.5	97.93	16 45	14.84	28.5	17.30	15 36	12.94	31.4	28.07	12 32	15.25	20.1	85.37	25 16	16.32	23.8	99.24	28 57
16.32	23.5	98.18	11 31	16.13	28.6	17.42	15 11	15.44	31.4	28.15	11 36	13.99	20.2	85.48	28 03	15.44	23.8	99.41	25 23
16.32	23.5	98.26	10 38	13.89	28.6	17.62	13 20	15.25	31.4	28.45	10 51	15.13	20.2	85.54	21 47	15.13	23.9	99.46	22 57
16.32	23.6	98.48	13 15	15.73	28.6	17.73	16 34	15.44	31.5	28.75	16 14	15.38	20.2	85.69	22 46	14.95	23.9	99.51	23 57
16.32	23.6	98.62	17 32	16.32	28.7	17.79	19 56	13.80	31.5	28.82	12 28	15.25	20.2	85.72	25 38	15.07	23.9	99.67	29 24
15.73	23.6	98.64	13 00	16.13	28.7	17.81	15 12	13.80	31.6	29.14	14 58	15.44	20.3	85.90	20 47	15.44	24.0	99.88	24 10
15.44	23.7	98.94	14 19	16.32	28.8	18.26	14 54	14.78	31.7	29.45	16 52	14.78	20.3	85.94	23 25	14.50	24.1	0.23	27 01
15.25	23.8	99.31	11 05	15.57	28.8	18.40	16 22	15.13	31.7	29.54	10 08	8.93	20.3	85.97	26 44	15.25	24.1	0.34	25 02
14.78	23.8	99.42	13 19	14.84	28.9	18.91	18 56	16.32	31.8	29.93	19 06	16.13	20.3	86.05	21 32	15.57	24.1	0.40	29 37
16.32	24.6	2.16	12 02	13.99	29.1	19.51	13 10	15.65	31.9	30.08	19 41	16.13	20.3	86.20	29 58	13.32	24.3	0.98	22 50
15.73	24.7	2.62	13 06	15.13	29.1	19.54	12 46	15.13	31.9	30.25	16 42	15.25	20.4	86.22	22 38	12.41	24.3	1.14	20 44
16.32	24.8	3.02	15 25	15.57	29.1	19.59	17 42	16.32	32.0	30.40	14 30	14.13	20.4	86.48	24 18	15.38	24.5	1.98	22 28
16.32	24.9	3.26	19 06	14.66	29.2	19.68	15 47	16.32	32.0	30.59	10 16	15.57	20.5	86.92	22 37	16.13	24.5	2.06	26 35
16.13	24.9	3.44	13 32	16.32	29.2	19.82	19 06	15.73	32.1	30.94	19 08	15.25	20.5	86.95	27 56	15.25	24.7	2.64	21 32
16.13	24.9	3.51	19 50	14.13	29.2	19.82	11 24	16.13	32.1	30.94	13 10	13.02	20.7	87.48	26 22	15.13	25.1	4.01	27 06
16.32	25.0	3.69	19 07	14.50	29.2	19.92	11 28	15.44	16.4	71.47	29 39	16.13	20.7	87.60	20 31	15.25	25.1	4.32	24 47
13.99	25.0	3.71	16 20	15.98	29.2	20.04	16 50	16.32	16.5	71.61	28 45	16.32	20.8	88.00	29 29	14.55	25.6	6.08	27 56
14.84	25.2	4.64	15 18	15.25	29.3	20.11	15 14	15.13	16.5	71.61	22 32	14.55	21.0	88.77	23 16	16.32	25.7	6.42	29 13
16.32	25.3	5.03	14 20	16.32	29.4	20.45	17 41	15.38	16.7	72.52	23 19	15.07	21.0	88.81	22 29	16.32	25.9	7.11	26 23
14.13	25.3	5.07	12 07	16.13	29.4	20.72	13 54	16.32	17.0	73.67	20 37	16.13	21.1	88.98	23 22	16.32	25.9	7.23	22 20
16.32	25.4	5.19	13 25	13.99	29.4	20.78	13 43	16.32	17.1	73.87	29 40	16.13	21.1	89.01	25 29	10.48	25.9	7.26	24 04
15.73	25.5	5.56	13 39	13.80	29.6	21.51	15 04	11.02	17.4	75.15	27 34	12.82	21.4	90.05	25 00	13.15	26.1	7.94	25 57
15.13	25.5	5.57	16 57	14.66	29.7	21.62	16 04	13.44	17.5	75.53	27 38	15.25	21.4	90.10	28 06	14.13	26.4	9.06	26 53
16.32	25.5	5.78	13 19	14.50	29.8	22.12	11 23	14.04	17.6	75.91	25 09	15.57	2.14	90.34	29 03	15.44	26.4	9.18	22 06
15.44	25.5	5.87	13 40	16.32	29.8	22.23	17 54	15.98	17.7	76.45	28 25	16.32	21.5	90.41	29 43	14.13	26.5	9.44	29 26
14.24	25.6	6.16	18 26	15.25	29.8	22.23	12 11	13.44	17.9	77.06	23 49	11.33	21.6	90.91	29 11	14.66	26.6	9.76	29 21
16.32	25.6	6.18	15 44	15.38	29.8	22.29	19 46	15.73	17.9	77.09	26 36	16.32	21.6	91.08	20 30	15.25	26.6	9.90	24 58
14.13	25.9	7.39	13 30	14.04	29.8	22.63	12 38	16.32	18.0	77.43	23 33	15.82	21.7	91.14	26 02	16.32	26.7	10.08	21 05
16.32	26.1	8.01	13 37	15.98	29.9	22.67	13 30	15.98	18.2	78.07	28 32	16.32	21.8	91.56	26 17	15.44	26.7	10.35	26 09
14.50	26.2	8.21	13 45	16.32	30.0	22.82	14 08	9.92	18.3	78.38	29 53	15.13	21.9	92.14	28 39	15.57	26.8	10.59	24 10
16.32	26.3	8.83	10 02	14.13	30.0	23.09	19 07	16.32	18.4	78.93	26 43	14.13	21.9	92.17	23 47	15.82	26.9	11.12	21 47
16.32	26.3	8.86	18 52	15.25	30.2	23.63	15 14	15.13	18.5	79.20	21 51	14.04	21.9	92.21	23 19	14.39	27.1	11.64	24 48
15.82	26.3	8.96	10 32	15.44	30.4	24.32	18 16	12.41	18.6	79.43	28 49	14.04	22.0	92.28	26 16	14.66	27.2	11.92	27 34
15.07	26.5	9.67	14 57	14.39	30.4	24.63	13 22	15.57	18.6	79.57	25 16	15.25	22.0	92.39	21 57	16.32	27.2	12.13	22 41
15.44	26.6	9.92	14 57	14.55	30.5	24.68	12 25	14.13	18.6	79.67	27 57	14.50	22.1	92.77	28 46	15.44	27.3	12.43	26 53
14.95	26.6	10.10	12 38	14.24	30.5	24.99	10 19	13.75	18.7	80.12	20 24	15.25	22.1	92.91	26 03	16.32	27.3	12.50	23 31
16.32	26.7	10.28	19 27	12.01	30.7	25.70	15 22	15.13	18.8	80.25	21 36	15.25	22.3	93.43	23 28	14.66	27.4	12.86	26 31
14.55	26.9	10.90	10 24	15.98	30.7	25.72	13 42	15.01	18.8	80.54	20 15	14.78	22.6	94.52	29 43	15.44	27.5	13.20	28 57
15.98	27.1	11.68	14 50	16.32	30.8	25.84	17 58	14.61	19.0	81.00	20 35	15.57	22.6	94.80	29 45	14.24	27.7	13.81	29 06
16.32	27.3	12.31	15 08	16.32	30.8	25.95	13 36	15.73	19.1	81.39	21 35	12.61	22.7	95.20	21 02	14.78	27.8	14.32	29 19

25 prec. — 27 sec. + 4′ 55″.

851—900				901—950				951—1000				1001—1050				1051—1088			
Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′
	m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″		m	′	′ ″
13.80	28.1	15.42	29 14	15.98	16.5	72.00	30 00	14.84	19.8	84.34	39 14	16.32	24.2	0.56	37 57	14.84	28.7	17.52	30 10
16.32	28.2	16.02	22 16	14.66	16.6	72.31	37 52	15.25	19.9	84.83	37 08	15.44	24.2	0.81	32 21	16.32	28.7	17.66	30 12
15.44	28.5	16.86	23 20	14.95	16.6	72.40	38 14	15.07	20.0	85.10	30 53	15.38	24.4	1.54	32 34	16.32	28.8	17.99	39 20
15.07	28.6	17.55	23 50	16.13	16.9	73.37	34 26	14.50	20.1	85.36	35 09	15.01	24.4	1.58	30 37	16.32	28.9	18.14	39 44
14.55	28.6	17.56	22 37	13.66	16.9	73.39	36 03	14.78	20.1	85.53	36 33	11.40	24.5	1.69	31 16	15.38	29.0	18.53	33 47
11.37	28.9	18.51	25 08	15.44	16.9	73.42	36 44	15.38	20.2	85.89	35 34	14.24	24.5	1.95	30 48	16.32	29.0	18.53	39 18
14.84	28.9	18.65	25 25	15.57	17.0	73.89	36 24	16.32	20.3	86.14	30 06	15.25	24.6	2.23	35 27	15.73	29.1	18.87	39 25
16.13	29.1	19.13	25 17	10.00	17.0	73.89	34 56	16.32	20.4	86.69	35 28	16.32	24.7	2.67	37 56	15.98	29.1	18.97	35 54
15.44	29.1	19.14	26 47	14.78	17.1	74.20	39 18	14.84	20.5	87.09	32 20	14.13	24.9	3.28	37 56	14.50	29.3	19.90	37 08
15.44	29.3	19.92	23 56	16.32	17.1	74.40	39 50	16.32	20.6	87.14	30 02	16.32	24.9	3.34	34 32	16.32	29.4	20.12	32 28
16.32	29.4	20.34	24 56	13.80	17.2	74.46	35 18	16.13	20.7	87.84	30 11	16.32	25.0	3.89	30 54	16.32	29.4	20.30	31 14
16.32	29.4	20.54	29 31	16.32	17.2	74.50	31 04	16.32	20.8	88.16	33 01	15.98	25.1	4.07	38 57	16.32	29.6	20.81	32 26
15.44	29.5	20.85	23 07	16.13	17.2	74.57	35 46	15.44	20.9	88.37	31 26	15.57	25.1	4.27	31 56	16.32	29.7	21.46	30 16
15.98	29.6	21.13	22 42	15.07	17.3	75.06	30 19	13.89	20.9	88.60	36 56	15.07	25.2	4.36	31 10	15.44	29.8	21.79	37 42
13.66	29.6	21.28	27 12	14.13	17.6	75.93	35 48	14.78	21.0	88.65	39 53	15.38	25.4	5.12	39 31	16.32	30.0	22.26	33 00
12.61	29.7	21.60	26 20	15.57	17.6	75.95	34 18	15.07	21.1	89.15	36 26	15.07	25.4	5.34	35 05	12.01	30.1	22.69	32 04
16.32	29.8	21.75	25 23	15.25	17.7	76.38	31 44	14.50	21.1	89.34	32 48	15.07	25.4	5.38	36 34	15.38	30.3	23.50	39 31
16.32	29.8	21.81	25 53	13.66	17.8	77.03	33 42	14.13	21.2	89.64	37 16	16.32	25.5	5.43	35 14	16.32	30.4	23.74	32 45
14.66	29.8	21.84	29 43	14.95	17.9	77.06	31 58	15.73	21.3	89.84	37 10	12.21	25.5	5.43	39 42	15.25	30.4	23.76	37 17
16.32	30.1	22.93	21 24	16.32	18.1	77.91	38 08	14.66	21.3	90.00	34 52	15.38	25.5	5.53	32 33	16.32	30.6	24.50	35 12
13.15	30.1	23.15	20 55	14.78	18.2	78.35	37 00	15.13	21.3	90.08	30 25	14.29	25.6	5.87	38 06	16.32	30.8	25.26	36 14
15.98	30.2	23.23	21 16	15.57	18.2	78.36	33 14	14.55	21.4	90.10	32 31	15.57	25.6	6.09	33 26	14.78	31.0	26.10	30 38
16.32	30.2	23.54	21 26	15.13	18.2	78.47	35 16	15.98	21.4	90.17	30 40	16.13	25.7	6.40	38 56	13.66	31.1	26.69	38 54
16.32	30.2	23.56	25 48	14.39	18.3	78.58	33 12	16.32	21.6	90.89	34 26	15.44	25.8	6.63	37 46	15.44	31.2	26.96	31 55
15.98	30.4	24.00	26 31	15.25	18.3	78.68	38 23	13.53	21.7	91.40	37 07	15.44	26.0	7.66	35 09	15.13	31.3	27.10	36 34
14.24	30.4	24.15	29 13	15.44	18.3	78.70	37 39	16.13	21.8	91.59	36 16	15.73	26.2	8.15	31 36	16.32	31.3	27.18	39 13
14.13	30.4	24.21	28 12	14.66	18.3	78.84	34 12	16.32	22.0	92.55	39 10	16.32	26.5	9.22	33 00	15.98	31.3	27.35	31 18
13.23	30.6	25.10	27 24	14.29	18.6	79.68	39 07	15.98	22.1	92.92	33 38	16.32	26.7	10.11	34 40	16.32	31.5	27.92	35 49
15.44	30.7	25.40	26 33	13.57	18.6	79.92	39 33	15.13	22.1	92.99	30 28	15.44	26.8	10.32	37 29	15.38	31.5	28.00	30 32
16.32	30.8	25.73	28 36	1.478	18.7	80.37	37 28	14.66	22.1	93.07	32 08	14.78	26.8	10.38	33 14	15.73	31.6	28.50	36 28
16.32	30.8	25.76	23 07	16.32	18.8	80.72	32 07	14.55	22.3	93.82	34 41	14.24	26.9	10.86	39 59	15.25	31.8	29.06	39 36
13.99	30.8	25.82	21 56	16.32	18.9	81.03	32 24	13.89	22.4	93.91	33 18	15.73	27.0	11.08	38 26	14.50	31.8	29.17	31 55
14.66	30.9	26.11	29 38	15.07	19.0	81.16	39 12	15.44	22.4	93.95	32 26	15.44	27.0	11.28	37 38	15.57	31.9	29.40	33 06
16.13	31.0	26.29	22 44	15.25	19.0	81.22	30 55	14.95	22.4	94.19	39 10	16.13	27.2	11.80	33 26	15.98	31.9	29.48	33 28
12.21	31.0	26.30	22 22	14.84	19.0	81.30	37 16	15.13	22.5	94.24	37 20	15.25	27.3	12.29	34 44	15.44	31.9	29.55	33 04
15.44	31.0	26.40	23 20	16.32	19.1	81.65	36 06	14.24	22.5	94.37	34 56	15.44	27.3	12.36	32 38	16.13	32.0	29.69	39 24
14.50	31.2	27.03	25 58	15.98	19.1	81.82	30 25	14.66	22.5	94.47	37 29	15.13	27.4	12.56	34 48	10.97	32.1	30.37	36 06
15.44	31.2	27.19	22 56	15.44	19.2	82.02	35 14	15.73	22.8	95.38	37 12	16.32	27.5	13.20	33 05	14.78	32.2	30.73	32 00
14.04	31.2	27.31	28 45	16.13	19.2	82.03	36 38	16.32	22.9	96.02	39 16	14.55	27.7	13.95	33 01				
13.99	31.4	28.04	24 06	15.44	19.2	8.210	31 18	14.24	23.0	96.13	30 12	16.32	27.9	14.56	33 36				
15.13	32.0	30.07	21 37	15.82	19.2	82.18	37 40	14.24	23.1	96.52	39 59	15.25	28.0	14.88	32 36				
15.44	32.0	30.08	29 21	14.39	19.2	82.20	30 59	15.73	23.1	96.66	30 57	14.55	28.0	14.96	32 59				
16.32	32.0	30.23	20 46	14.24	19.2	82.23	38 10	15.38	23.2	96.98	34 33	14.13	28.1	15.29	36 10				
13.11	32.0	30.28	21 52	14.29	19.3	82.41	34 48	16.32	23.2	97.10	34 26	16.32	28.2	15.81	39 56				
13.66	32.1	30.55	24 55	14.04	19.4	82.99	35 59	16.32	23.3	97.22	32 02	15.13	28.3	16.05	39 58				
14.55	32.1	30.59	27 27	15.57	19.5	83.23	36 22	14.50	23.3	97.36	32 13	16.32	28.3	16.24	37 52				
16.32	32.2	30.96	28 25	15.65	19.6	83.44	30 28	14.66	23.3	97.42	32 29	12.41	28.5	16.74	37 46				
15.25	16.3	71.19	32 43	15.25	19.6	83.56	39 30	12.61	23.5	97.99	35 30	15.07	28.5	16.97	36 54				
15.73	16.3	71.32	30 19	14.04	19.6	83.59	37 36	13.75	23.7	98.73	35 50	16.32	28.5	16.98	31 00				
16.13	16.3	71.36	38 36	14.78	19.7	83.81	38 06	16.32	23.9	99.80	36 38	15.73	28.6	17.21	33 23				

25 prec. — 28 sec + 4′ 55″.

Area 8. Centre for 1900: 1h 0m + 60° 10′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.38	56 57	77.02	52 47	14.55	57 36	82.01	56 33	14.93	58 35	89.31	59 27	14.36	59 41	97.57	53 15	14.23	0 49	6.10	51 18
13.70	57	77.06	58 28	14.42	37	82.13	56 04	15.27	39	89.87	58 02	14.12	41	97.66	55 26	15.27	50	6.24	59 13
15.08	57	77.10	51 59	14.55	39	82.29	50 19	12.05	40	89.97	50 49	12.62	41	97.67	56 03	15.08	54	6.85	59 46
10.98	57	77.13	58 14	14.78	40	82.39	50 39	14.78	40	89.98	53 14	11.48	42	97.75	57 11	14.12	57	7.10	53 51
14.55	57 0	77.49	59 20	12.05	41	82.55	52 56	13.03	41	90.13	54 11	15.08	44	97.94	53 42	13.86	58	7.28	59 50
13.70	0	77.50	57 24	14.29	43	82.85	59 58	13.52	43	90.33	59 44	14.55	44	98.04	56 13	14.12	58	7.29	57 48
13.81	2	77.73	59 23	15.27	44	83.00	56 53	13.86	45	90.58	58 50	15.27	46	98.20	59 06	15.27	59	7.35	56 52
13.70	3	77.78	50 37	15.27	45	83.04	55 39	15.27	45	90.65	57 21	15.27	46	98.23	52 38	14.93	59	7.40	51 34
15.27	5	78.03	56 49	14.42	46	83.25	58 59	14.23	46	90.77	53 12	14.36	47	98.30	53 14	13.61	1 0	7.54	58 47
13.81	5	78.07	51 32	14.93	47	83.36	59 48	13.38	46	90.80	57 38	14.55	48	98.43	50 39	15.27	0	7.54	52 32
10.12 :	6	78.22	59 38	13.70	48	83.43	52 28	15.27	48	90.98	56 37	14.36	48	98.47	58 43	14.23	1	7.65	58 57
15.08	7	78.40	53 16	13.56	49	83.62	55 18	14.07	48	90.99	56 25	15.27	48	98.54	59 36	15.27	5	8.09	55 10
15.27	10	78.66	51 59	13.16	50	83.72	58 53	15.27	49	91.07	58 10	13.16	56	99.46	57 32	15.27	8	8.55	55 35
13.96	10	78.73	55 46	15.27	51	83.79	52 58	13.86	49	91.09	52 06	15.27	58	99.69	51 57	15.27	10	8.71	50 31
13.33	10	78.78	58 47	13.24	52	83.90	59 36	14.07	51	91.29	52 42	13.91	58	99.76	59 42	13.33	13	9.16	53 44
12.82	11	78.86	50 24	14.42	53	84.06	54 00	14.0 7	53	91.66	57 54	13.47	0 0	99.96	58 34	13.70	16	9.57	57 33
14.23	12	78.89	58 42	15.27	53	84.10	54 45	12.05	54	91.77	54 48	13.86	2	0.23	51 49	15.08	16	9.60	56 49
13.70	12	79.00	52 45	15.27	54	84.14	50 16	14.23	56	91.98	57 00	14.36	4	0.54	56 24	15.08	18	9.69	50 02
14.93	12	79.00	51 06	15.27	56	84.49	58 02	14.42	56	92.04	55 43	14.07	5	0.68	56 34	13.47	19	9.85	52 57
14.42	13	79.06	59 56	13.70	58 3	85.31	58 20	12.62	58	92.24	54 01	14.12	6	0.72	52 43	15.27	19	9.97	58 32
15.08	15	79.35	54 14	13.96	4	85.49	57 56	10.79	59 0	92.42	55 45	14.23	6	0.77	55 20	14.42	20	10.05	54 22
14.23	18	79.62	50 41	11.67	6	85.71	57 30	14.70	0	92.51	57 43	14.23	6	0.78	55 51	15.27	21	10.12	55 15
14.55	19	79.85	56 10	14.12	7	85.81	50 29	15.27	3	92.79	50 37	14.36	8	0.94	53 55	14.63	21	10.15	59 46
15.27	19	79.86	58 43	14.07	7	85.87	58 30	13.81	4	92.94	50 57	13.81	9	1.16	52 47	14.70	24	10.59	54 29
13.61	20	79.91	50 08	14.42	10	86.18	52 45	15.08	7	93.31	52 36	15.27	10	1.29	54 30	14.42	25	10.66	55 54
15.27	20	80.01	55 28	14.23	12	86.51	55 03	14.23	8	93.44	59 01	14.36	13	1.60	59 40	14.36	25	10.69	52 21
14.23	21	80.07	58 47	14.42	13	86.54	50 47	14.23	8	93.52	50 44	10.98	13	1.66	53 56	14.42	28	10.97	51 38
14.42	21	80.10	59 20	12.90	13	86.58	52 42	13.96	9	93.66	54 38	14.36	19	2.45	57 25	13.11	28	11.06	53 28
13.16	21	80.12	55 09	10.29	16	86.98	53 01	14.36	10	93.73	53 20	14.70	21	2.61	51 13	15.27	29	11.17	52 16
13.81	22	80.21	59 15	14.36	18	87.15	52 21	14.12	10	93.79	55 06	13.81	21	2.66	55 58	15.27	31	11.37	58 06
11.86	22	80.22	57 48	13.81	18	87.28	54 17	14.55	12	93.93	53 21	14.78	22	2.77	57 43	14.36	31	11.42	58 38
14.42	22	80.27	58 22	14.78	19	87.28	52 08	15.27	12	93.99	54 11	15.08	25	3.17	55 56	14.36	31	11.43	59 23
12.24	23	80.31	53 30	15.08	19	87.30	51 46	11.67	13	94.10	53 07	14.23	26	3.21	50 29	15.27	32	11.50	52 45
14.36	24	80.39	59 57	14.36	19	87.33	55 06	12.90	13	94.10	52 51	13.16	27	3.37	57 56	14.12	34	11.72	59 53
14.23	24	80.42	55 30	14.42	22	87.71	53 54	14.42	17	94.66	59 15	13.96	29	3.56	50 38	14.23	35	11.94	55 34
15.27	25	80.52	55 54	15.27	23	87.85	59 22	13.86	20	94.92	52 57	13.33	29	3.63	55 00	15.27	36	11.99	50 38
14.42	25	80.56	53 49	12.24	24	88.01	52 27	14.36	20	95.04	59 38	13.86	30	3.70	55 57	12.51	43	12.94	59 50
14.93	25	80.62	59 23	12.55	26	88.21	54 38	13.61	22	95.23	55 55	12.24	33	4.11	51 19	14.55	45	13.17	50 40
13.86	28	80.90	56 11	14.23	27	88.33	55 15	15.08	24	95.49	58 32	11.67	34	4.22	56 49	14.55	48	13.57	59 11
13.61	28	80.92	55 56	13.56	30	88.73	51 13	15.27	25	95.64	51 33	12.86	34	4.30	59 56	14.23	48	13.59	54 02
13.47	28	80.94	59 23	11.86	30	88.77	57 01	12.74	26	95.67	51 59	14.78	35	4.37	52 04	13.86	49	13.71	54 36
13.81	28	80.98	53 55	15.27	30	88.78	55 34	15.08	27	95.92	57 32	15.27	35	4.37	53 27	14.36	51	13.93	58 45
15.27	29	81.11	54 48	13.33	31	88.86	50 24	15.27	30	96.23	57 39	14.36	35	4.46	58 47	15.27	52	14.03	51 18
12.82	30	81.18	55 38	9.99	31	88.87	58 07	15.27	32	96.45	59 57	14.42	38	4.74	55 57	15.27	55	14.44	52 36
13.24	32	81.48	50 57	15.27	32	88.90	50 59	13.16	32	96.48	52 41	14.42	43	5.39	52 34	14.93	59	14.88	51 57
13.56	33	81.59	52 01	14.42	32	89.01	55 02	14.23	32	96.55	56 30	15.27	45	5.60	51 05	15.27	59	14.92	59 23
15.27	34	81.69	52 39	14.42	33	89.11	52 54	15.27	34	96.72	57 39	15.27	45	5.63	57 49	15.27	2 0	15.07	51 58
14.78	35	81.86	56 00	15.27	34	89.26	56 24	10.35	36	96.94	55 04	15.27	47	5.88	52 53	12.43	2	15.31	58 19
14.55	35	81.87	58 43	14.12	34	89.29	56 47	14.93	37	97.17	58 42	14.93	48	6.00	52 58	14.36	2	15.37	59 19
13.70	36	81.95	54 24	13.86	35	89.29	54 18	14.07	38	97.25	59 21	12.05	49	6.08	50 32	14.93	4	15.59	53 20

25 prec. + 91 sec. + 8′ 5″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	a	x	$y+70'$ / $y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.70	2 6	15.77	53 44	14.42	57 44	83.06	9 10	14.36	58 47	90.90	2 36	13.81	0 28	3.48	6 44	15.27	1 56	14.50	5 00
14.42	8	15.98	55 43	15.08	45	83.15	6 21	13.11	50	91.26	5 52	12.66	30	3.74	9 36	12.55	59	14.89	2 14
14.23	8	16.02	59 29	14.78	45	83.20	7 57	12.20	50	91.31	0 24	14.36	36	4.43	5 28	13.56	2 0	14.98	2 52
14.93	9	16.18	52 56	14.42	47	83.35	1 27	14.42	50	91.32	3 21	13.33	37	4.62	0 02	13.81	4	15.51	5 21
12.05	12	16.54	50 34	14.07	48	83.48	2 45	15.27	52	91.50	9 08	14.23	42	5.25	6 14	15.08	5	15.55	2 24
14.70	56 58	77.29	2 30	14.93	48	83.49	2 25	13.24	52	91.51	5 32	14.07	44	5.50	0 32	15.27	6	15.76	2 21
14.93	59	77.47	8 28	13.56	50	83.79	5 15	15.27	53	91.65	0 45	12.82	44	5.53	8 06	14.36	12	16.41	1 17
13.61	57 0	77.49	3 52	14.12	52	84.09	6 07	14.07	59	92.39	3 26	14.12	51	6.38	3 33	15.27	12	16.50	8 39
13.38	1	77.65	7 03	15.08	56	84.53	7 15	14.99	59 0	92.46	9 42	10.79	54	6.72	6 44	13.03	14	16.77	8 20
15.27	1	77.70	3 28	14.36	56	84.55	8 33	13.47	0	92.55	9 59	13.81	54	6.78	0 43	15.27	15	16.84	9 03
14.36	2	77.83	3 20	15.27	56	84.56	5 14	14.93	3	92.87	0 13	14.55	54	6.79	5 32	14.36	56 55	77.03	14 00
15.27	3	77.91	4 43	13.38	58	84.78	1 02	13.70	4	93.06	9 38	14.36	55	6.81	3 12	15.27	56	77.15	11 43
15.27	3	77.96	9 16	13.65	58	84.82	9 48	15.27	11	93.89	1 49	11.14	59	7.37	6 16	15.27	57	77.32	18 58
14.93	6	78.25	7 39	15.27	58 0	85.03	2 59	15.27	15	94.37	1 46	12.95	1 0	7.46	1 20	12.55	59	77.50	12 33
15.27	7	78.42	0 43	15.27	0	85.05	0 53	14.78	16	94.51	0 18	12.35	3	7.89	0 58	13.75	57 1	77.82	10 26
14.42	7	78.47	2 17	14.23	0	85.08	3 32	13.96	17	94.61	4 49	14.07	4	7.93	2 37	15.27	2	77.90	13 42
13.61	8	78.53	1 23	15.08	0	85.11	9 29	14.36	17	94.66	0 04	13.91	5	8.16	0 20	15.27	3	78.04	19 44
15.27	8	78.62	8 11	14.42	3	85.41	1 18	13.70	24	95.46	5 50	14.12	6	8.22	3 13	15.27	5	78.28	11 17
14.23	11	78.93	6 53	15.27	5	85.62	1 24	14.07	24	95.52	4 00	13.96	9	8.61	2 10	15.27	8	78.61	15 47
14.49	11	78.98	0 06	15.27	5	85.64	6 00	15.27	26	95.81	8 21	14.12	10	8.66	2 04	10.38	11	79.02	14 46
13.20	14	79.31	0 02	14.12	6	85.77	3 56	15.27	32	96.48	3 23	14.12	10	8.72	1 07	15.27	12	79.15	19 44
12.90	16	79.54	0 25	15.27	6	85.80	6 52	15.27	33	96.68	6 39	10.71	10	8.76	5 58	12.51	13	79.32	19 51
15.27	17	79.63	5 05	15.27	10	86.25	7 51	14.36	34	96.76	7 34	13.33	10	8.77	5 46	13.38	13	79.32	10 18
13.81	18	79.80	0 20	13.81	10	86.26	2 47	13.96	35	96.86	5 50	14.42	14	9.19	9 08	15.27	14	79.43	17 04
15.27	19	79.90	6 44	14.36	12	86.48	6 55	14.63	38	97.32	0 28	15.27	14	9.22	9 31	14.36	16	79.62	18 11
15.27	21	80.21	5 58	12.16	12	86.50	8 27	15.08	39	97.34	9 41	15.27	14	9.27	5 10	13.86	16	79.63	18 39
14.42	22	80.24	1 05	14.42	17	87.22	6 34	15.27	40	97.43	1 00	14.36	17	9.58	4 34	15.27	16	79.70	10 24
14.23	23	80.38	5 51	15.27	18	87.28	5 35	15.27	40	97.48	0 01	14.42	18	9.67	1 47	14.42	16	79.70	10 45
14.23	25	80.70	8 38	15.27	19	87.43	4 53	13.70	40	97.56	6 33	15.27	19	9.78	1 46	14.36	17	79.78	19 20
15.27	29	81.21	3 08	14.93	19	87.43	3 03	9.95 *	43	97.89	7 34	12.74	19	9.92	6 34	13.16	17	79.82	17 21
15.27	30	81.26	2 53	15.27	22	87.76	9 03	14.70	45	98.10	1 06	15.27	20	10.01	1 07	14.42	18	79.88	18 58
14.42	30	81.29	3 34	13.86	24	88.07	3 26	14.93	48	98.46	7 51	14.78	22	10.22	7 16	13.86	18	79.98	16 00
11.86	30	81.30	4 05	13.38	26	88.30	8 11	14.93	49	98.67	2 43	12.95	23	10.37	4 01	14.36	20	80.19	15 50
12.70	31	81.47	9 06	15.27	27	88.36	4 27	14.29	50	98.70	0 10	14.70	24	10.45	7 18	13.07	21	80.26	10 16
15.27	31	81.48	8 37	14.70	27	88.38	5 08	14.93	56	99.51	1 48	15.08	24	10.46	3 39	15.27	22	80.42	17 40
13.96	32	81.55	7 23	13.96	28	88.59	8 25	14.12	0 1	0.13	6 15	15.27	24	10.49	4 56	13.24	26	80.85	16 36
13.38	32	81.59	3 33	15.27	28	88.60	8 46	12.43	7	0.92	0 15	12.99	25	10.59	9 52	14.36	26	80.93	18 45
14.12	34	81.78	1 55	14.93	30	88.77	9 27	13.86	8	0.97	3 53	13.56	28	10.93	0 58	12.51	28	81.11	11 53
14.12	36	81.98	4 03	15.27	31	88.92	2 44	13.81	8	1.01	4 22	15.27	28	10.99	9 50	13.96	28	81.14	19 32
14.93	36	82.07	2 53	14.78	33	89.13	6 44	14.23	9	1.13	0 58	14.23	29	11.08	2 10	15.27	28	81.21	17 05
13.16	36	82.09	8 48	14.23	33	89.16	1 05	11.20	11	1.41	7 27	15.08	29	11.09	7 23	14.36	30	81.36	13 22
15.27	38	82.30	2 48	15.27	34	89.29	6 23	15.27	12	1.49	1 07	14.42	29	11.17	8 58	15.08	32	81.61	12 13
12.16	38	82.30	5 36	14.70×	35	89.42	0 33	15.27	12	1.51	4 59	14.12	30	11.25	7 33	12.62	32	81.72	19 06
14.78	39	82.38	0 41	14.36	36	89.49	7 40	14.36	13	1.57	4 50	12.95	39	12.33	5 43	14.93	34	81.83	14 40
15.27	39	82.47	5 56	13.52	37	89.62	0 06	15.08	15	1.87	3 38	15.27	39	12.40	6 35	12.05	34	81.93	19 08
14.23	40	82.49	7 02	14.12	38	89.83	8 21	14.93	17	2.18	9 30	10.35	48	13.46	1 03	15.27	34	81.93	19 35
15.27	40	82.61	8 26	14.42	39	89.85	1 24	15.27	18	2.25	7 50	15.27	48	13.50	7 02	15.27	35	82.01	14 21
14.12	41	82.72	4 30	14.23	40	90.02	3 50	12.05	20	2.45	4 25	14.42	52	13.93	4 32	14.93	37	82.31	14 05
14.93	43	82.97	6 28	14.42	43	90.40	3 54	12.20	21	2.58	0 26	14.23	54	14.17	5 47	11.48	37	82.32	17 25
14.42	44	83.00	5 09	15.27	45	90.58	1 49	14.42	26	3.27	0 40	15.27	56	14.43	3 39	14.36	38	82.40	18 39

25 prec. + 92 sec. + 8′ 4″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.96	57 39	82.49	17 01	14.42	59 3	92.91	10 44	15.27	0 58	7.22	16 27	15.27	57 5	78.40	28 27	14.42	58 52	91.63	23 39
13.61	40	82.60	11 35	13.86	4	93.07	13 01	15.27	59	7.28	13 51	14.36	7	78.68	23 52	10.88	54	91.87	22 39
14.70	44	83.08	13 40	14.12	5	93.20	14 47	14.07	1 0	7.42	13 52	14.23	11	79.13	23 32	14.36	58	92.36	21 04
13.38	47	83.49	10 52	13.96	6	93.32	14 01	11.48	0	7.51	15 55	14.42	11	79.15	27 16	13.86	59	92.53	26 20
14.55	50	83.87	11 13	13.16	7	93.39	18 24	12.90	1	7.55	17 32	15.27	11	79.19	24 38	15.27	59 0	92.63	22 02
13.81	52	84.10	14 19	14.42	8	93.59	13 13	15.08	1	7.60	11 30	14.70	12	79.24	21 14	13.56	1	92.72	22 22
15.27	55	84.54	15 40	15.08	9	93.61	11 54	12.35	3	7.91	13 40	14.42	12	79.27	27 08	11.86	3	92.99	27 20
15.27	57	84.68	11 05	13.70	10	93.85	16 22	15.08	4	8.01	18 52	14.23	14	79.51	24 08	14.93	6	93.32	29 55
14.36	58	84.80	11 28	15.27	13	94.17	13 02	14.55	7	8.30	10 30	12.55	16	79.78	25 15	15.27	7	93.44	23 29
14.70	58	84.84	17 51	15.08	15	94.41	14 32	15.27	8	8.47	18 08	14.70	18	79.95	23 16	13.56	7	93.49	21 32
14.07	58	84.90	16 40	14.55	15	94.44	10 38	15.27	11	8.80	17 20	15.27?	18	79.98	26 02	12.05	10	93.80	24 21
14.93	59	84.93	10 36	13.81	16	94.53	17 52	14.07	11	8.86	14 07	14.93	19	80.09	24 17	13.33	15	94.51	29 42
15.27	58 1	85.28	18 39	14.29	18	94.74	19 49	14.93	21	10.07	16 30	14.49	21	80.36	20 26	13.81	17	94.73	21 00
13.96	3	85.44	19 50	14.55	19	94.90	16 55	13.91	21	10.08	10 02	14.42	21	80.37	29 45	14.36	18	94.87	22 48
14.70	8	86.12	16 20	13.47	32	96.54	10 54	15.27	23	10.27	16 00	14.55	23	80.61	27 50	12.43	21	95.17	24 22
13.16	8	86.12	14 11	8.18*	38	97.26	14 11	15.27	23	10.31	12 22	14.93	23	80.66	25 01	13.56	23	95.45	21 22
15.27	9	86.16	10 47	14.12	38	97.30	17 46	14.36	25	10.56	15 53	14.93	24	80.67	22 03	15.27	27	95.92	29 25
13.38	10	86.42	19 27	14.12	39	97.38	19 10	13.96	26	10.66	16 24	15.08	26	81.01	28 54	10.95	31	96.40	24 01
15.27	11	86.50	15 10	15.27	47	98.38	19 15	11.48	31	11.27	12 37	14.12	27	81.15	26 28	15.27	33	96.64	26 25
13.56	12	86.56	12 23	14.12	50	98.73	17 49	14.42	31	11.29	14 46	15.27	30	81.50	26 57	14.36	40	97.60	27 16
15.27	13	86.70	16 28	14.78	50	98.73	17 20	12.16	31	11.31	11 13	13.33	37	82.35	21 03	14.78	47	98.46	27 07
15.27	14	86.80	17 39	14.12	53	99.08	15 55	12.13	33	11.55	18 34	14.36	37	82.36	26 22	13.38	56	99.52	23 13
12.70	14	86.85	18 55	11.67	54	99.20	11 37	14.42	35	11.74	19 52	14.23	38	82.53	23 39	15.27	58	99.72	21 58
14.70	16	87.07	12 04	14.23	57	99.66	17 16	15.27	35	11.75	14 23	14.07	40	82.68	27 43	10.95	58	99.79	24 54
14.78	16	87.10	18 30	14.23	58	99.81	15 06	12.55	35	11.83	15 03	12.62	45	83.30	24 48	14.70	0 7	0.91	25 34
15.27	17	87.20	19 19	14.36	59	99.87	11 04	14.70	39	12.31	18 32	15.27	54	84.48	28 27	15.08	8	0.93	20 02
14.63	17	87.22	10 14	13.24	0 1	0.16	16 22	15.27	43	12.75	18 26	14.12	55	84.55	21 00	15.27	10	1.27	21 10
13.96	21	87.70	19 54	13.86	5	0.65	18 39	14.23	44	12.93	14 16	10.98	55	84.63	27 00	14.07	10	1.30	27 28
15.08	24	88.13	15 13	14.93	8	1.01	16 00	11.48	46	13.20	15 54	14.42	56	84.76	27 59	14.55	12	1.50	24 05
15.27	24	88.14	12 57	11.02	9	1.12	18 25	14.42	50	13.68	10 32	14.36	58	84.96	26 35	13.33	18	2.26	29 00
14.23	25	88.19	12 14	13.81	14	1.72	11 15	13.70	52	13.90	15 32	14.12	58 2	85.43	24 08	13.24	20	2.48	20 02
14.12	25	88.23	17 46	14.93	19	2.29	11 06	15.27	53	13.98	14 44	14.23	4	85.70	25 25	15.27	21	2.53	20 53
13.70	26	88.37	10 35	12.05	21	2.66	18 52	14.42	54	14.07	11 35	13.70	12	86.68	22 54	15.27	21	2.65	26 59
13.86	26	88.39	14 42	12.62	25	3.06	10 30	12.90	57	14.46	10 14	14.07	13	86.73	23 11	12.43	23	2.84	27 29
14.70	31	88.97	13 30	15.27	25	3.15	18 50	14.23	58	14.59	12 42	15.27	13	86.76	25 25	14.55	26	3.14	21 39
15.27	32	89.09	19 09	15.27	27	3.37	19 05	14.55	59	14.71	11 40	14.93	13	86.81	28 02	14.23	26	3.17	29 39
15.27	35	89.47	13 02	15.27	28	3.43	14 00	13.16	59	14.71	10 24	14.42	16	87.13	25 28	13.91	27	3.32	20 18
15.27	35	89.50	17 51	15.27	29	3.52	11 04	15.27	2 5	15.54	12 59	15.08	18	87.41	29 42	11.48	30	3.70	21 43
12.95	38	89.87	12 16	14.42	30	3.77	12 51	12.35	6	15.61	16 45	13.70	20	87.64	26 11	15.08	31	3.86	28 18
14.07	39	89.98	15 07	14.42	31	3.80	15 11	14.55	8	15.96	19 22	14.42	20	87.71	28 39	14.42	34	4.26	29 54
14.55	43	90.43	13 31	13.70	32	3.96	18 07	14.78	11	16.29	19 47	14.42	22	87.87	28 00	15.08	37	4.54	20 16
14.93	44	90.59	14 01	15.27	35	4.38	19 14	14.55	14	16.56	11 46	15.27	27	88.48	24 23	14.78	38	4.75	28 49
14.36	46	90.82	16 09	14.70	38	4.79	18 09	14.55	15	16.74	16 50	14.85	28	88.60	20 24	14.36	41	5.03	24 54
14.23	46	90.83	13 48	15.27	40	4.89	13 26	10.56	56 54	77.03	20 35	15.27	31	88.96	25 49	15.27	41	5.10	27 09
11.48	48	91.00	14 25	15.27	47	5.83	13 32	15.27	56	77.27	25 57	14.55	34	89.40	20 34	13.38	43	5.32	20 18
14.23	50	91.26	17 29	14.70	50	6.26	19 48	15.27	58	77.53	25 12	15.27	35	89.54	28 36	13.38	44	5.47	29 41
13.70	51	91.39	12 14	13.70	51	6.28	16 45	13.70	58	77.55	28 09	13.61	36	89.61	28 44	14.23	46	5.65	29 34
15.27	55	91.90	11 42	15.27	53	6.53	12 12	14.36	57 0	77.73	27 14	14.23	37	89.78	27 23	13.33	46	5.72	20 30
14.78	56	92.04	10 28	13.07	57	7.08	19 29	14.23	1	77.86	21 25	14.78?	42	90.39	22 21	13.86	51	6.25	22 55
13.16	58	92.30	11 01	15.27	57	7.12	19 11	12.24	3	78.10	25 01	14.42	43	90.50	28 06	15.27	54	6.64	22 28

25 prec. + 92 sec. + 8′ 4″.

1^h Area 8. + 60°

751—770				771—790				791—810				811—814			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.27	0 55	6.79	21 57	14.55	1 26	10.63	28 08	14.93	1 55	14.20	20 28	15.27	2 12	16.37	26 02
14.42	58	7.21	21 38	13.56	28	10.79	21 45	13.24	56	14.24	21 05	15.08	13	16.40	24 59
14.23	1 1	7.48	21 45	15.27	28	10.81	29 11	14.42	56	14.30	25 15	14.12	14	16.54	20 17
14.12	2	7.72	27 19	12.35	28	10.89	24 28	15.27	57	14.42	24 19	13.81	16	16.79	27 21
14.12	3	7.83	27 55	14.07	29	10.96	22 03	14.23	58	14.65	29 55				
14.42	4	7.90	26 27	13.81	29	10.99	24 09	14.12	59	14.69	26 31				
15.27	4	7.90	23 32	13.24	31	11.23	27 31	13.61	2 0	14.80	27 02				
11.29	8	8.33	24 36	15.08	35	11.77	24 47	14.42	2	15.01	22 19				
13.61	10	8.58	24 38	13.47	36	11.81	23 45	14.55	3	15.18	25 42				
14.23	10	8.59	26 35	13.96	36	11.83	26 38	12.43	4	15.27	23 17				
14.93	13	8.97	26 18	11.86	37	11.94	29 52	14.23	6	15.51	26 28				
15.27	15	9.28	25 48	15.08	41	12.41	25 03	13.16	7	15.70	29 28				
15.27	17	9.49	29 47	12.70	41	12.45	23 50	15.27	8	15.77	27 44				
14.70	18	9.69	28 11	13.70	41	12.48	29 36	15.27	8	15.80	25 28				
14.07	21	9.99	20 40	15.27	43	12.73	29 01	15.08	8	15.87	27 37				
11.67	22	10.05	21 24	11.86	47	13.22	22 24	14.07	9	15.94	24 43				
13.16	21	10.07	28 16	14.42	50	13.61	24 02	14.23	9	15.96	28 55				
11.75	22	10.10	20 16	11.14	52	13.80	25 54	15.27	10	16.09	25 27				
14.93	24	10.38	25 57	14.55	53	13.90	23 27	15.27	11	16.20	28 40				
14.23	25	10.49	27 28	14.12	54	14.03	25 47	13.24	11	16.20	24 44				

25 prec. + 92 sec. + 8′ 3″.

3^h Area 9. Centre for 1900: $3^h\ 4^m$ + 60° 20′. + 60°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.38	0 59	77.44	8 47	16.24	2 12	86.54	6 21	16.58	3 28	96.04	4 20	14.85	4 27	3.28	9 27	15.97	5 13	9.12	6 16
14.55	1 0	77.54	0 07	16.39	13	86.62	4 20	15.45	32	96.46	8 28	13.22	27	3.38	4 02	15.16	13	9.13	9 59
15.31	0	77.54	4 02	9.84*	22	87.80	9 10	15.81	38	97.25	8 37	16.58	29	3.60	5 54	14.34	22	10.22	9 47
16.58	4	78.05	9 00	16.58	26	88.32	4 59	16.58	45	98.15	9 05	16.58	31	3.90	4 28	15.60	23	10.29	5 14
14.55	10	78.78	8 12	15.70	37	89.58	5 02	13.22	47	98.39	2 12	16.13	39	4.85	9 56	16.58	29	11.03	3 46
13.88	16	79.53	2 14	16.39	37	89.59	6 32	12.16	48	98.47	9 52	15.60	41	5.05	9 26	15.12	32	11.46	2 18
15.31	19	79.85	2 13	16.58	39	89.87	5 27	16.58	51	98.88	1 58	13.58	41	5.06	4 22	16.39	37	12.08	9 20
16.58	19	79.94	2 22	14.55	45	90.58	0 10	16.58	52	99.01	2 40	16.58	42	5.26	1 38	13.05	41	12.60	4 07
9.24*	28	81.02	3 27	15.31	50	91.28	4 32	16.13	54	99.22	9 27	16.24	45	5.59	3 08	16.58	44	12.91	3 52
13.22	31	81.41	8 57	11.12	51	91.36	3 37	16.58	55	99.36	7 53	15.45	46	5.70	8 20	16.13	50	13.74	9 17
16.58	37	82.19	7 02	12.88	53	91.67	8 52	16.58	59	99.91	4 44	16.58	51	6.32	5 00	13.58	51	13.83	5 35
13.05	46	83.28	1 48	9.98	3 1	92.68	9 00	14.76	4 0	99.94	3 01	15.70	53	6.60	7 28	15.81	59	14.77	9 24
15.45	48	83.53	3 55	13.58	2	92.72	6 25	13.69	2	0.22	0 26	14.89	54	6.72	7 50	16.58	6 5	15.53	9 04
16.58	53	84.22	9 25	14.55	6	93.27	5 37	13.58	3	0.37	4 02	16.39	58	7.17	7 40	14.89	1 4	78.18	15 21
12.16	54	84.34	9 34	15.21	7	93.34	0 59	14.98	5	0.55	5 48	15.31	58	7.28	5 47	14.47	7	78.58	14 08
12.02	2 1	85.15	6 14	15.55	8	93.54	6 16	13.58	10	1.19	3 01	15.55	5 0	7.47	4 28	13.51	8	78.66	19 49
15.81	1	85.17	9 32	16.58	12	93.97	1 15	12.38	12	1.50	6 06	15.07	1	7.58	8 21	14.03	12	79.22	10 06
14.55	10	86.21	7 09	13.22	12	94.05	8 33	13.58	24	2.98	7 57	13.88	3	7.82	3 48	15.55	19	80.00	13 47
16.58	11	86.34	6 04	11.44	24	95.47	1 39	14.76	26	3.17	1 56	15.45	6	8.25	4 27	14.26	25	80.78	14 25
15.26	12	86.45	9 37	16.58	28	95.96	7 37	15.12	26	3.27	3 07	15.97	8	8.43	7 20	13.58	25	80.82	15 19

25 prec. + 119 sec. + 5′ 48″.

Area 9.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.07	1 33	81.75	12 20	15.55	4 21	2.57	11 46	15.07	1 18	79.95	26 05	14.76	4 41	5.07	26 44	16.13	1 25	80.99	31 19
16.08	34	81.95	11 10	13.22	22	2.76	11 58	16.39	24	80.69	20 20	12.22	43	5.28	27 43	15.70	26	81.07	32 19
13.58	40	82.67	12 52	12.71	22	2.76	10 26	12.02	26	80.91	20 40	8.69*	45	5.58	25 21	14.42	32	81.80	32 40
10.65	50	83.84	17 59	16.58	25	3.06	10 17	15.60	32	81.76	26 25	16.58	50	6.11	23 48	15.86	32	81.82	31 02
15.86	52	84.14	14 37	14.63	26	3.24	16 13	13.05	39	82.57	21 27	13.58	56	6.85	25 33	13.58	37	82.44	36 54
15.12	2 5	85.72	15 10	15.31	26	3.28	12 51	13.58	52	84.15	29 11	15.97	58	7.15	21 13	14.68	40	82.79	38 40
11.66	6	85.81	17 06	16.13	28	3.50	16 18	10.86	53	84.34	21 49	16.58	5 0	7.46	21 56	15.60	47	83.72	34 59
13.65	11	86.42	19 54	14.89	28	3.51	18 12	15.21	53	84.35	20 45	15.86	4	7.84	24 34	14.85	54	84.54	38 27
16.58	17	87.20	13 30	16.58	29	3.61	16 54	16.13	59	85.09	22 52	16.58	5	8.05	22 06	13.69	2 4	85.81	33 10
16.13	22	87.80	10 39	12.88	34	4.33	19 05	11.56	2 0	85.22	29 16	13.05	11	8.70	23 28	13.22	8	86.21	39 18
15.12	26	88.35	14 00	16.58	36	4.45	15 16	14.85	3	85.51	25 19	14.26	12	8.90	28 37	16.58	11	86.58	35 04
16.58	27	88.42	15 39	13.58	37	4.64	16 37	16.39	6	85.92	25 09	11.25	17	9.48	20 26	14.63	18	87.41	39 21
16.58	29	88.75	15 18	11.66	38	4.73	17 46	13.84	8	86.15	21 56	14.26	20	9.83	24 55	16.08	28	88.65	31 11
15.31	30	88.86	12 35	13.40	42	5.27	13 40	13.22	16	87.09	27 38	12.55	24	10.31	26 52	16.58	28	88.72	35 49
14.47	34	89.28	11 05	15.07	44	5.48	14 05	15.36	23	88.01	24 51	12.55	25	10.51	26 41	15.12	37	89.79	37 19
15.21	35	89.47	13 54	13.95	48	5.90	19 49	16.58	39	89.95	28 28	15.26	31	11.15	20 21	15.86	43	90.51	34 11
12.88	42	90.29	16 44	14.63	48	5.92	18 07	16.58	42	90.35	21 45	14.98	39	12.24	24 40	12.71	47	91.03	32 04
16.39	46	90.85	18 52	15.70	53	6.61	11 36	14.76	42	90.38	22 47	16.39	41	12.41	27 19	14.55	50	91.35	31 22
16.39	48	91.08	17 14	10.84	58	7.26	19 02	12.55	47	90.97	27 22	15.31	43	12.70	21 43	13.95	56	92.15	39 02
14.85	49	91.14	10 09	15.81	5 2	7.68	12 53	14.98	49	91.26	27 10	15.70	48	13.32	25 00	7.97*	3 0	92.60	34 28
16.39	50	91.32	12 18	13.76	3	7.87	18 33	12.38	51	91.43	27 15	15.31	48	13.35	25 59	16.08	1	92.72	33 13
16.58	53	91.66	19 03	14.07	4	7.92	10 59	14.26	51	91.47	28 51	15.55	51	13.65	28 50	15.86	5	93.23	39 28
16.24	57	92.13	18 39	14.47	9	8.54	18 17	16.58	57	92.28	23 35	15.31	52	13.75	26 13	15.07	8	93.55	31 59
16.08	3 15	94.46	11 39	15.07	10	8.70	17 06	14.47	59	92.41	25 29	14.76	53	13.94	21 10	12.71	12	94.15	32 15
13.69	16	94.50	15 23	16.58	14	9.22	17 51	15.36	3 3	92.93	21 04	12.55	54	14.07	25 58	16.58	14	94.40	35 30
16.58	18	94.81	15 30	14.98	16	9.42	18 13	14.34	14	94.34	25 27	14.18	56	14.27	20 20	15.31	16	94.61	35 01
16.58	22	95.32	13 39	16.39	18	9.67	15 06	12.22	20	95.01	26 35	16.39	57	14.36	21 08	16.58	16	94.62	37 17
11.59	30	96.34	12 46	15.21	18	9.69	17 40	16.58	20	95.03	25 08	15.07	57	14.40	24 25	12.71	18	94.90	38 43
13.88	31	96.36	19 09	14.85	21	10.08	13 48	16.58	20	95.06	25 52	14.42	58	14.58	28 46	15.31	19	94.92	34 01
7.03*	32	96.55	15 20	16.39	22	10.23	11 21	14.22	23	95.45	28 28	16.58	6 0	14.82	21 58	13.95	19	95.00	33 27
15.12	34	96.78	13 00	15.31	23	10.32	12 33	15.86	28	96.06	24 58	9.45	1	14.91	29 56	14.89	22	95.40	39 39
15.12	35	96.88	19 32	16.58	24	10.39	17 32	16.58	28	96.06	21 53	15.21	2	14.99	24 00	16.24	26	95.87	34 51
15.86	37	97.18	18 27	11.56	36	11.88	11 32	16.08	30	96.29	25 36	16.39	2	15.04	24 17	15.70	27	95.94	38 29
16.58	37	97.19	18 38	12.55	42	12.60	13 14	14.42	37	97.20	25 47	16.58	5	15.42	23 42	16.58	31	96.40	36 31
15.60	43	97.84	11 35	13.22	42	12.71	13 38	16.58	47	98.33	27 00	14.47	7	15.69	21 16	15.21	36	97.10	39 18
14.34	44	98.04	17 28	14.68	46	13.12	14 00	15.36	50	98.68	24 59	14.76	10	16.00	21 14	16.58	38	97.31	32 45
16.08	45	98.16	10 30	15.21	47	13.33	15 09	16.58	54	99.21	26 36	14.26	10	16.02	29 14	15.97	38	97.32	31 39
15.07	51	98.94	15 54	14.76	52	13.96	18 03	13.58	55	99.34	24 31	16.58	11	16.13	24 58	15.12	41	97.71	38 36
11.37	54	99.31	18 52	16.58	57	14.48	11 19	15.70	55	99.34	20 05	14.34	14	16.47	26 03	16.39	44	98.03	32 01
14.76	56	99.50	17 25	16.58	58	14.60	12 01	15.97	55	99.42	29 01	13.58	15	16.59	28 01	15.21	45	98.21	38 48
14.34	59	99.83	15 44	16.39	6 4	15.41	12 37	12.71	56	99.43	23 12	14.07	15	16.60	25 58	12.55	46	98.33	35 35
16.58	4 0	0.04	12 53	15.97	4	15.42	11 17	14.89	56	99.52	24 47	16.39	15	16.62	22 37	14.14	52	99.00	31 29
13.95	8	0.98	16 45	12.55	9	16.06	12 30	12.95	4 4	0.47	20 26	14.68	17	16.90	24 54	15.07	54	99.22	36 40
15.07	11	1.35	16 25	16.39	13	16.47	19 26	15.86	6	0.76	22 16	15.36	0 53	77.02	32 05	14.68	4 0	99.94	32 43
9.63*	13	1.63	10 30	16.13	1 2	77.97	29 29	15.81	7	0.91	25 56	13.58	54	77.10	33 23	15.70	5	0.63	37 41
15.86	14	1.68	17 31	13.58	2	77.99	23 49	13.22	11	1.28	29 55	13.88	1 1	78.05	31 28	16.39	6	0.75	35 41
14.14	17	2.13	12 53	15.81	5	78.39	23 24	12.71	12	1.42	22 54	15.07	3	78.27	34 33	10.16	11	1.31	33 08
16.39	19	2.32	18 42	16.24	11	79.13	20 17	14.85	16	2.02	24 50	15.36	9	78.98	36 29	16.58	15	1.87	33 20
16.58	19	2.36	12 58	11.94	13	79.36	29 00	13.40	18	2.24	25 15	13.58	11	79.19	35 03	15.86	20	2.48	31 00
15.21	19	2.37	15 40	15.21	14	79.47	25 56	12.00	26	3.18	29 44	12.38	17	79.98	38 08	12.71	21	2.63	32 44

25 prec. + 119 sec. + 5′48″.

3^h Area 9. + 60°

351—360				361—370				371—380				381—384			
Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.55	4 28	3.43	37 21	9.70	5 12	8.81	30 20	16.58	5 37	11.95	35 39	16.58	6 10	15.92	38 34
14.98	31	3.78	34 59	15.36	12	8.89	32 51	15.97	38	12.08	36 53	15.81	11	16.05	35 01
16.58	35	4.27	36 41	12.71	14	9.09	36 15	16.13	39	12.17	34 00	14.42	11	16.12	34 53
15.86	47	5.78	32 01	13.05	15	9.16	38 17	16.58	41	12.38	35 26	13.58	14	16.40	36 53
12.71	50	6.14	30 40	14.26	15	9.17	30 24	14.63	42	12.59	35 20				
16.08	58	7.15	33 30	13.58	17	9.45	32 40	16.08	43	12.66	39 22				
13.69	59	7.24	35 08	16.58	20	9.84	36 43	12.71	46	13.01	33 38				
16.58	5 2	7.67	30 49	16.58	22	10.05	36 24	12.88	46	13.02	35 55				
11.84	10	8.59	32 48	15.55	24	10.31	36 07	12.22	6 1	14.81	37 54				
14.22	12	8.79	34 03	13.95	29	10.94	37 20	14.85	9	15.85	38 13				

25 prec. + 120 sec. + 5′ 47″.

5^h Area 10. Centre for 1900: $5^h\ 8^m$ + 60° 10′. + 59°, + 60°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$\frac{y+70'}{y+10'}$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.28	5 8	78.43	56 08	15.33	7 44	97.96	52 19	15.33	9 36	12.01	53 39	15.91	6 8	86.08	1 42	15.24	7 18	94.83	3 57
15.57	29	81.08	54 34	11.89	46	98.19	56 16	14.97	38	12.32	52 00	15.19	12	86.52	5 15	14.66	19	94.85	3 44
14.04	39	82.35	56 08	15.24	52	99.02	56 04	15.10	41	12.68	57 53	15.91	14	86.84	5 07	15.33	20	95.05	5 04
13.18	44	82.99	56 00	15.91	54	99.26	55 32	15.91	47	13.42	54 36	15.72	17	87.17	8 58	15.91	28	95.99	0 35
14.79	53	84.03	56 33	13.06	59	99.91	54 16	15.91	47	13.43	53 28	15.91	17	87.21	3 54	15.19	31	96.39	7 13
15.91	6 1	85.10	57 13	14.66	8 0	99.99	56 26	15.91	48	13.48	58 24	15.24	20	87.49	8 59	9.98	31	96.43	9 05
14.66	3	85.33	55 20	14.32	1	0.11	52 34	15.19	58	14.76	55 16	14.53	21	87.71	5 58	12.08	42	97.78	2 23
15.33	9	86.03	52 32	15.91	3	0.35	50 24	15.24	58	14.79	59 13	15.01	28	88.50	2 35	8.76*	44	98.07	9 18
15.43	12	86.40	56 03	13.84	11	1.36	56 22	15.91	10 0	15.05	57 03	14.58	28	88.52	7 10	15.91	47	98.36	5 39
14.53	12	86.46	57 56	13.64	13	1.64	56 08	15.91	2	15.26	51 03	15.01	29	88.64	6 28	14.88	52	99.07	1 25
13.64	18	87.25	59 58	12.28	14	1.80	50 53	13.76	6	15.83	59 57	14.24	35	89.42	0 36	14.75	8 9	1.17	9 00
14.58	24	87.97	54 14	15.91	19	2.33	51 58	14.58	7	15.90	58 19	14.24	38	89.76	4 41	15.19	9	1.17	0 52
13.25	27	88.34	53 53	14.79	35	4.40	58 24	14.12	7	15.91	54 34	14.66	39	89.89	2 52	14.66	24	2.99	3 28
14.66	32	88.95	56 25	11.52	38	4.82	54 00	13.76	7	15.91	34 01	15.91	39	89.92	9 46	15.43	27	3.38	7 30
14.24	36	89.43	53 23	15.91	39	4.93	58 04	15.91	14	16.73	52 28	14.58	45	90.61	7 42	15.24	27	3.40	2 35
12.47	42	90.22	50 37	15.48	41	5.13	55 15	13.64	15	16.87	51 53	15.91	49	91.15	6 32	7.11*	33	4.10	4 19
15.72	46	90.68	56 46	15.33	42	5.24	59 14	15.91	20	17.52	55 38	15.91	50	91.26	9 39	15.91	36	4.52	7 49
15.01	51	91.38	53 14	11.46	44	5.51	52 16	14.97	5 16	79.50	8 49	14.53	55	91.91	6 50	14.75	39	4.82	8 09
15.24	56	92.04	59 05	15.48	59	7.42	54 16	13.22	17	79.64	9 50	15.24	58	92.21	4 36	15.24	39	4.85	4 18
13.06	58	92.28	54 10	15.91	59	7.43	57 34	13.49	18	79.81	9 44	15.01	7 2	92.72	5 32	14.16	42	5.30	3 31
15.71	7 6	93.26	57 25	14.24	9 5	8.11	58 43	14.79	19	79.94	5 11	15.91	4	93.07	7 13	15.57	44	5.49	9 38
14.16	13	94.14	57 27	15.91	7	8.38	54 41	15.19	34	81.83	4 12	15.91	5	93.19	7 27	12.86	47	5.89	8 23
14.97	20	94.93	50 27	15.91	10	8.82	52 37	15.91	39	82.41	3 20	12.67	6	93.21	5 22	11.89	54	6.78	3 05
15.91	25	95.58	56 33	14.75	13	9.13	55 55	15.91	39	82.41	9 05	15.72	8	93.47	6 05	15.10	55	6.82	6 27
14.53	28	96.00	56 03	15.91	15	9.42	50 38	12.08	44	83.03	8 57	15.91	11	93.88	0 12	15.91	57	7.14	9 47
15.19	30	96.24	57 06	15.19	20	10.09	52 43	15.91	51	83.88	4 32	15.91	12	93.96	4 16	14.79	59	7.32	3 21
14.97	36	96.95	55 06	14.66	21	10.15	57 59	15.91	51	83.96	2 20	14.53	12	94.06	6 12	13.25	59	7.36	1 42
15.91	36	96.98	56 05	15.19	28	11.02	53 09	13.84	6 0	84.98	3 25	15.91	14	94.30	3 00	15.91	9 2	7.74	7 52
14.24	39	97.38	55 36	15.57	31	11.44	52 04	13.06	2	85.29	6 05	14.88	15	94.42	4 08	14.97	3	7.86	6 13
13.57	39	97.40	56 24	15.01	32	11.53	57 58	14.79	6	85.81	9 30	15.48	18	94.74	6 34	13.96	10	8.67	1 13

25 prec. + 133 sec. + 1′ 53″.

151—200				201—250				251—300				301—350				351—355			
Int. magn.	α	x	y+10'	Int. magn.	α	x	y+10'	Int. magn.	α	x	y+10'	Int. magn.	α	x	y+10'	Int. magn.	α	x	y+10'
	m s	'	' ''		m s	'	' ''		m s	'	' ''		m s	'	' ''		m s	'	' ''
15.24	9 10	8.70	8 06	12.67	6 52	91.58	12 27	15.43	10 22	17.56	15 46	15.91	7 24	95.58	22 40	12.67	10 7	15.65	26 33
12.67	16	9.53	9 58	14.16	58	92.25	19 26	14.84	22	17.59	10 13	15.43	26	95.77	28 35	15.91	7	15.71	21 01
15.57	17	9.60	8 29	14.24	59	92.42	11 11	14.58	23	17.75	14 39	14.66	35	96.96	28 53	14.79	9	15.98	20 38
15.57	56	14.46	0 15	15.01	7 4	93.02	15 56	15.72	24	17.83	13 42	15.91	36	97.00	22 00	15.57	14	16.59	22 22
11.69	56	14.52	5 19	15.91	6	93.30	13 41	15.72	24	17.86	18 33	15.48	36	97.03	20 51	15.72	19	17.11	26 56
9.36	10 0	14.91	8 25	15.10	14	94.29	16 05	15.72	5 8	78.78	20 53	15.10	43	97.92	20 31				
14.97	2	15.24	0 54	10.88	20	95.07	14 40	15.10	9	78.87	20 53	15.33	46	98.26	26 31				
15.91	11	16.31	9 50	14.97	28	95.98	16 57	15.91	17	79.85	24 27	13.45	49	98.68	24 10				
15.91	12	16.42	8 03	15.24	31	96.44	10 43	15.91	20	80.24	24 58	11.69	50	98.70	28 16				
12.67	12	16.46	3 01	15.91	35	96.87	17 28	13.76	25	80.88	22 45	15.57	51	98.90	29 20				
14.24	14	16.76	5 39	13.45	51	98.91	16 51	14.66	26	80.95	23 24	14.75	59	99.84	21 57				
13.25	16	16.91	5 23	14.75	57	99.58	19 41	15.91	28	81.18	26 35	15.91	8 1	0.07	27 02				
11.14	18	17.24	0 22	14.66	57	99.64	16 57	14.84	28	81.30	20 23	14.75	6	0.79	28 52				
15.24	19	17.34	6 59	15.52	8 1	0.16	10 15	12.86	29	81.41	25 55	15.10	9	1.13	23 35				
15.91	5 11	78.98	19 22	15.33	2	0.24	15 37	15.91	38	82.52	29 08	13.18	12	1.45	20 49				
15.91	11	79.06	12 31	13.37	4	0.46	11 49	14.79	41	82.83	29 25	15.10	14	1.74	26 10				
15.91	12	79.17	13 16	11.89	4	0.53	15 25	13.06	46	83.41	21 35	14.66	17	2.06	22 32				
14.97	13	79.32	12 43	14.53	5	0.65	15 44	15.91	49	83.87	28 46	15.91	24	3.00	25 59				
15.91	15	79.56	19 08	12.08	7	0.89	19 00	15.91	52	84.21	21 35	15.91	25	3.09	25 13				
15.91	21	80.22	13 01	13.06	8	0.96	13 03	12.28	55	84.60	28 30	14.53	27	3.30	27 09				
15.72	25	80.76	11 33	15.91	11	1.37	14 27	14.58	6 0	85.20	23 00	13.57	30	3.65	22 18				
13.06	26	80.90	13 52	14.97	13	1.57	15 24	13.06	1	85.35	24 01	14.04	30	3.75	28 48				
15.24	26	80.95	15 34	15.91	18	2.20	14 20	14.79	6	85.99	21 00	13.84	32	3.96	26 35				
14.79	27	81.06	16 57	11.89	19	2.39	11 09	15.33	7	86.01	20 42	15.91	32	3.99	26 06				
12.86	30	81.44	19 19	14.32	20	2.45	12 41	15.43	7	86.01	23 04	14.75	42	5.23	22 17				
14.66	35	82.02	16 58	15.10	21	2.56	11 41	13.96	8	86.21	20 24	14.45	44	5.43	22 54				
15.91	37	82.21	10 13	12.67	38	4.69	13 45	15.91	9	86.33	28 05	15.01	49	6.07	23 41				
14.24	43	82.95	10 45	15.57	42	5.23	14 13	15.91	15	87.00	25 38	15.24	52	6.48	24 52				
15.72	45	83.22	14 29	15.19	42	5.27	16 39	12.47	18	87.46	26 03	15.33	54	6.67	24 50				
13.37	46	83.31	16 48	14.66	47	5.84	19 36	14.79	20	87.62	21 20	15.33	55	6.80	26 42				
15.01	48	83.60	18 03	15.19	50	6.14	12 32	14.79	30	88.86	21 30	14.79	9 6	8.17	25 58				
14.84	59	84.98	10 22	15.91	52	6.48	19 03	14.58	30	88.89	23 50	15.91	16	9.38	28 06				
13.25	6 8	86.11	12 51	12.67	9 3	7.87	16 15	14.53	37	89.79	20 39	15.72	16	9.40	21 46				
15.01	8	86.11	16 33	15.91	11	8.81	13 26	15.10	40	90.09	20 31	12.86	18	9.61	24 42				
13.64	10	86.39	19 18	11.69	16	9.46	15 19	15.33	42	90.37	20 51	15.57	30	11.12	25 36				
14.88	13	86.74	17 14	14.88	16	9.47	14 55	15.10	43	90.48	23 26	13.84	32	11.39	23 36				
13.25	20	87.59	13 56	15.72	23	10.33	15 15	14.04	43	90.51	27 47	14.79	32	11.41	25 33				
15.57	21	87.77	12 35	13.06	26	10.64	11 25	14.66	46	90.80	25 06	14.16	38	12.06	24 30				
14.66	27	88.47	17 24	12.08	28	10.98	18 04	15.91	49	91.26	20 42	15.91	39	12.25	22 00				
15.01	32	89.12	12 14	15.91	46	13.15	18 41	13.64	52	91.62	24 45	15.43	42	12.55	26 23				
14.58	36	89.56	14 26	12.67	47	13.23	11 48	15.91	54	91.84	25 24	15.57	42	12.56	21 33				
14.24	37	89.74	15 10	9.87	56	14.35	14 32	15.91	55	91.99	28 20	15.01	44	12.84	23 54				
15.91	37	89.75	18 08	15.91	57	14.51	10 53	15.91	7 2	92.83	21 49	15.72	45	13.00	26 35				
15.01	40	90.04	13 23	15.72	57	14.54	19 31	15.72	6	93.40	20 05	12.86	50	13.64	23 57				
15.57	40	90.09	18 50	15.91	10 0	14.91	16 55	15.72	8	93.60	20 22	15.48	52	13.77	26 11				
13.45	40	90.11	11 41	14.79	2	15.11	18 40	15.24	12	94.05	20 00	15.91	53	13.99	27 56				
13.25	43	90.39	15 07	15.91	9	15.95	17 38	15.91	17	94.69	28 23	15.91	58	14.51	21 56				
13.92	43	90.48	17 47	15.43	14	16.60	11 17	15.91	19	94.92	29 07	15.19	10 2	15.01	27 55				
15.91	45	90.66	17 01	15.91	19	17.27	13 11	15.91	22	95.27	21 44	14.97	2	15.11	24 13				
14.88	51	91.38	12 31	12.98	21	17.50	19 38	14.79	22	95.27	29 39	15.72	5	15.46	23 03				

25 prec. + 134 sec. + 1' 53".

Area 11. Centre for 1900: $7^h\,7^m + 60^\circ\,0'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
13.94	2 47	68.03	36 35	14.45	5 20	87.31	35 20	14.72	7 44	5.55	37 06	13.94	3 0	69.83	49 38	14.35	5 12	86.36	44 41
13.70	48	68.07	34 10	15.19	20	87.38	31 04	13.38	45	5.68	34 35	15.96	3	70.13	43 46	13.02	12	86.45	46 58
15.12	48	68.09	37 28	14.04	22	87.61	33 04	13.56	45	5.71	30 03	15.96	4	70.26	46 22	14.30	17	87.08	41 34
15.96	3 2	69.87	33 05	15.77	25	88.03	38 18	15.12	58	7.35	35 53	15.50	6	70.58	48 05	14.35	18	87.15	44 38
14.56	2	69.92	34 32	12.26	30	88.61	39 42	13.24	59	7.43	35 57	15.37	7	70.68	49 40	14.83	20	87.41	47 28
15.96	5	70.29	37 17	15.77	35	89.27	37 59	11.45	8 0	7.63	31 08	13.47	8	70.84	43 51	15.00	21	87.49	47 06
15.31	11	70.98	31 45	15.00	35	89.29	35 42	15.96	1	7.78	34 07	15.50	9	70.93	45 10	14.30	24	87.85	42 17
15.96	13	71.26	30 35	15.96	40	89.94	34 12	14.30	8	8.62	35 05	15.31	9	70.94	45 01	15.43	24	87.85	45 37
13.80	14	71.41	39 09	14.35	43	90.30	38 41	12.59	8	8.62	36 08	15.96	11	71.15	47 45	15.50	24	87.94	48 49
15.50	16	71.59	37 05	15.96	47	90.72	32 14	14.72	10	8.89	38 35	15.62	12	71.22	45 42	13.02	31	88.80	45 01
15.00	21	72.26	34 42	15.96	53	91.47	38 35	15.19	13	9.28	32 24	13.24	13	71.43	45 25	13.38	43	90.28	44 26
12.72	21	72.27	35 33	14.14	58	92.16	39 58	15.62	16	9.57	38 43	15.77	14	71.57	48 48	11.44	44	90.37	44 51
15.19	22	72.36	31 42	12.59	58	92.17	34 55	14.83	20	10.14	37 40	15.19	16	71.73	46 44	13.61	6 4	92.98	48 54
14.61	24	72.68	33 37	15.12	6 6	93.18	32 02	14.83	21	10.20	30 19	14.72	23	72.64	41 30	15.96	5	93.11	45 22
11.44	30	73.41	38 55	15.96	10	93.65	39 33	14.83	21	10.22	34 32	15.96	29	73.41	44 56	14.19	6	93.26	45 15
14.89	32	73.73	33 32	12.59	15	94.25	31 37	15.19	24	10.62	39 07	15.77	29	73.43	46 37	15.19	7	93.38	41 32
9.86	33	73.79	39 46	13.70	18	94.75	35 52	15.19	33	11.72	33 52	13.56	34	74.04	43 37	15.96	8	93.42	47 27
14.45	41	74.79	31 40	13.85	18	94.75	39 39	14.30	37	12.26	34 50	13.80	38	74.57	41 43	15.00	8	93.43	41 43
15.31	48	75.64	37 29	14.04	20	94.98	33 11	15.96	40	12.65	33 12	15.77	42	75.08	47 30	14.45	8	93.46	45 49
15.43	48	75.73	37 12	14.61	21	95.09	37 09	13.56	42	12.89	35 37	15.96	42	75.10	45 49	15.00	9	93.53	40 06
15.31	53	76.33	36 16	15.50	23	95.27	36 11	15.96	50	13.92	33 33	14.04	43	75.22	42 00	12.18	12	94.02	45 43
15.00	54	76.50	36 16	15.00	26	95.73	30 55	15.50	55	14.56	36 09	14.56	44	75.26	48 25	15.12	13	94.13	46 57
11.80	55	76.58	39 07	13.38	29	96.02	32 17	15.77	57	14.85	37 09	15.77	45	75.50	49 58	15.50	14	94.21	42 52
15.19	57	76.83	33 41	15.96	30	96.23	30 53	15.12	59	15.01	32 05	15.00	48	75.85	41 06	14.61	27	95.82	43 04
15.96	4 0	77.15	36 49	13.24	35	96.86	30 48	15.96	59	15.09	36 53	15.19	49	75.94	41 59	15.77	30	96.27	45 20
11.80	3	77.61	35 58	15.43	36	96.91	36 41	10.89	9 2	15.45	37 43	15.77	51	76.25	40 18	13.56	31	96.37	49 12
15.96	6	77.91	30 10	14.19	38	97.23	34 13	13.85	3	15.62	34 09	15.96	52	76.34	42 29	15.96	32	96.47	44 12
14.09	6	78.01	30 35	14.09	39	97.31	37 56	13.94	5	15.85	39 49	15.77	54	76.61	47 42	14.83	34	96.70	47 22
15.77	7	78.13	32 33	14.83	44	98.03	37 39	14.56	14	16.92	38 09	13.15	56	76.78	40 05	15.96	40	97.51	44 58
14.83	10	78.43	38 58	15.96	47	98.39	39 37	15.96	15	17.13	37 58	13.56	4 0	77.32	49 42	15.19	46	98.18	44 23
12.38	10	78.43	30 42	15.96	51	98.87	30 59	13.02	19	17.55	34 42	15.77?	1	77.44	40 14	14.61	46	98.27	47 07
15.77	13	78.81	38 11	14.83	52	98.93	33 29	13.38	22	18.01	34 49	15.00	8	78.30	45 59	15.12	55	99.33	46 58
15.50	13	78.87	38 21	15.96	52	98.95	35 10	15.96	24	18.28	36 50	14.61	8	78.32	46 55	15.77	56	99.52	44 09
15.77	15	79.14	39 15	12.18	54	99.26	30 45	12.18	32	19.19	34 34	15.00	20	79.83	46 00	13.61	58	99.73	41 07
15.62	16	79.23	36 57	14.19	54	99.28	37 44	15.43	35	19.56	38 27	15.77	29	80.93	46 33	13.15	7 0	99.94	42 01
15.96	19	79.60	33 15	13.02	7 4	0.54	34 03	15.96	36	19.72	33 37	14.40	31	81.25	40 12	15.96	3	0.34	43 56
14.72	25	80.36	38 38	14.83	5	0.69	39 00	11.62	48	21.20	37 33	15.12	36	81.83	49 48	11.44	4	0.45	43 05
14.56	33	81.40	35 27	15.62	6	0.78	31 18	14.45	50	21.54	30 43	14.09	38	82.15	43 02	14.83	4	0.50	41 01
13.80	33	81.40	36 21	11.99	8	0.95	31 21	14.89	59	22.62	34 00	14.89	40	82.39	48 30	14.45	10	1.31	45 38
15.43	42	82.52	34 03	15.96	9	1.09	35 41	13.33	10 23	25.73	37 51	15.56	47	83.24	49 40	6.69	11	1.36	48 56
13.02	50	83.55	32 26	15.00	9	1.10	39 00	14.89	23	25.75	35 30	14.89	47	83.24	43 39	15.62	11	1.42	45 18
13.02	51	83.65	30 13	15.96	9	1.14	35 33	15.62	26	26.02	32 23	12.59	51	83.80	41 04	12.80	13	1.65	43 36
14.09	52	83.75	37 29	15.50	12	1.55	36 24	14.30	28	26.33	33 52	14.89	52	83.82	47 26	13.56	14	1.82	42 10
11.62	53	83.98	38 52	11.99	15	1.89	34 08	15.50	30	26.55	34 31	13.94	52	83.93	49 23	15.31	23	2.90	48 29
14.45	54	84.05	37 58	15.50	25	3.20	39 44	11.80	32	26.78	31 34	14.89	53	83.97	40 43	11.12	24	3.05	45 01
14.61	54	84.08	39 17	15.77	26	3.33	33 33	12.18	33	26.91	31 29	15.19	54	84.09	48 13	14.56	32	4.08	48 57
13.85	58	84.53	33 34	14.35	30	3.85	32 27	15.96	2 54	69.00	47 53	14.61	56	84.39	44 30	15.77	40	5.02	44 53
14.89	5 2	85.09	39 58	14.83	31	3.95	36 53	15.96	55	69.18	46 34	15.96	5 0	84.84	46 04	15.96	46	5.83	42 54
15.96	12	86.30	38 31	12.18	38	4.76	31 26	15.50	56	69.24	44 47	11.80	1	84.96	41 50	14.35	48	6.06	43 58
15.96	18	87.11	31 42	15.96	42	5.38	31 42	12.18	3 0	69.77	43 33	14.19	10	86.11	46 35	14.83	49	6.12	42 31

25 prec. + 132 sec. — 2′ 22″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$ $y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.94	7 57	7.18	48 46	15.96	3 31	73.84	51 07	12.59	6 31	96.36	58 01	15.12	9 37	19.63	51 47	15.96	4 27	80.92	4 10
13.47	8 0	7.60	40 19	14.45	31	73.84	59 40	14.04	31	96.38	59 52	15.50	40	19.98	52 42	11.99	29	81.19	1 51
13.47	1	7.63	45 10	15.96	34	74.20	52 53	14.61	34	96.73	54 48	15.96	46	20.82	51 23	15.62	31	81.41	7 12
15.12	15	9.49	46 15	15.43	36	74.40	51 27	7.93*	46	98.19	56 46	12.80	52	21.56	57 28	15.00	33	81.67	1 43
15.96	17	9.70	40 59	14.72	42	75.19	52 05	15.96	49	98.66	57 52	14.56	54	21.78	57 59	15.19	35	81.89	1 09
15.96	20	10.07	41 21	13.38	47	75.82	58 38	15.31	51	98.90	56 35	14.04	56	22.05	57 49	14.72	36	82.00	3 56
14.19	28	11.05	46 35	14.89	49	76.02	52 01	15.96	7 1	0.13	54 18	15.96	57	22.17	55 08	14.35	40	82.53	5 27
14.67	29	11.22	40 34	15.96	4 1	77.52	56 15	14.89	4	0.50	58 40	15.96	58	22.27	51 42	15.77	45	83.20	7 20
13.85	30	11.35	49 04	15.77	2	77.70	51 46	14.72	4	0.55	56 04	15.96	10 9	23.67	54 36	14.61	5 1	85.21	8 13
12.38	30	11.37	49 15	14.35	9	78.59	56 55	15.68	6	0.74	50 14	14.61	12	24.02	56 09	13.85	4	85.60	4 41
15.12	31	11.51	44 55	15.50	9	78.62	51 48	14.35	8	0.98	58 08	15.96	14	24.35	59 47	15.96	5	85.61	2 55
15.96	35	11.99	43 29	15.96	21	80.04	57 52	15.62	14	1.72	59 04	15.12	20	25.03	52 31	15.96	5	85.66	3 56
15.96	41	12.73	41 49	15.12	24	80.43	58 30	15.50	14	1.74	55 04	15.12	22	25.29	55 01	15.50	21	87.65	5 16
15.62	45	13.19	46 27	11.44	27	80.85	55 42	15.62	15	1.91	57 22	14.89	24	25.50	59 07	15.19?	24	88.07	0 08
15.50	46	13.29	41 00	14.89	28	80.97	59 29	15.62	17	2.13	54 10	15.19	25	25.73	53 17	14.61	26	88.30	5 51
15.96	52	14.06	41 03	14.89	32	81.39	57 55	14.61	30	3.74	52 27	14.19	27	25.89	57 51	14.89	29	88.66	0 48
15.31	54	14.34	42 48	15.12	32	81.40	53 47	14.30	38	4.81	58 25	13.94	28	26.07	53 03	15.96	36	89.49	4 44
14.89	9 0	15.05	45 41	15.96	32	81.49	50 16	15.19	39	4.90	54 39	14.83	2 46	68.31	7 54	15.00	40	89.98	2 42
15.77	8	16.18	43 46	14.09	33	81.55	53 11	15.96	40	5.02	58 53	15.00	47	68.49	2 32	12.18	40	90.07	4 24
15.96	12	16.67	43 47	14.61	33	81.59	51 58	15.00	44	5.49	56 19	15.96	49	68.75	4 23	15.96	44	90.48	5 47
15.12	29	18.75	46 53	12.38	39	82.34	55 07	15.77	48	6.03	56 21	15.96	52	69.12	0 12	15.96	47	90.92	2 02
14.35	30	18.95	48 54	15.12	41	82.58	57 53	13.61	50	6.20	58 41	11.99	56	69.51	9 04	15.96	47	90.95	2 42
15.12	32	19.17	43 46	12.59	43	82.81	57 21	14.45	51	6.38	51 15	15.96	57	69.74	4 50	15.96	6 13	94.12	2 05
15.96	35	19.57	48 06	13.99	45	83.07	59 48	15.43	53	6.64	55 00	15.96	58	69.84	5 59	15.96	16	94.53	2 29
15.77	35	19.57	45 51	15.12	58	84.74	53 55	11.99	55	6.84	54 22	15.43	59	69.99	8 05	15.77	22	95.29	6 42
15.19	42	20.38	40 58	14.35	59	84.84	59 44	15.96	58	7.30	51 46	15.19	3 2	70.37	4 49	14.61	23	95.37	2 41
13.61	42	20.45	43 54	15.19	5 0	84.97	58 04	13.47	8 1	7.69	53 13	15.00	3	70.49	2 51	13.24	32	96.50	5 41
14.89	43	20.58	49 04	11.16	0	85.00	54 50	11.28	11	8.92	58 58	15.96	15	72.01	4 28	12.38	33	96.66	3 19
13.11	46	20.84	48 41	15.77	1	85.13	54 14	14.89	17	9.62	53 37	12.38	23	72.98	0 06	13.85	35	96.92	3 32
14.45	54	21.88	47 34	15.62	6	85.68	58 56	15.12	18	9.77	54 24	14.45	31	73.92	2 40	15.19	37	97.14	2 56
15.77	54	21.97	42 09	15.00	13	86.58	57 39	14.89	18	9.79	53 07	12.93	33	74.19	1 37	15.96	42	97.77	4 55
15.19	55	21.99	40 18	15.50	15	86.80	58 35	12.38	19	9.89	59 22	15.96	33	74.24	4 29	15.31	43	97.87	8 56
11.80	10 2	22.96	44 26	14.83	20	87.42	51 39	14.89	20	10.06	50 19	14.83	34	74.30	1 50	15.96	44	97.96	5 18
14.83	8	23.68	45 06	12.72	22	87.69	58 04	15.19	21	10.10	53 55	14.61	34	74.34	4 14	11.62	45	98.11	9 23
15.96	12	24.24	44 34	13.15	23	87.83	55 49	15.96	23	10.37	51 51	12.59	37	74.67	9 24	15.96	46	98.19	8 24
14.83	18	24.95	45 00	14.25	29	88.58	50 06	15.31	25	10.66	55 07	15.96	41	75.19	6 39	11.80	47	98.36	3 59
15.56	26	25.88	40 19	11.62	33	89.06	54 31	15.62	34	11.76	59 02	15.00	46	75.82	4 49	15.31	55	99.35	8 37
13.70	31	26.53	47 14	14.45	34	89.19	55 58	14.89	35	11.85	57 04	15.96	47	75.93	2 32	12.18	7 4	0.50	2 06
15.96	2 45	68.01	58 01	14.45	34	89.28	58 11	15.96	36	12.01	54 55	12.38	49	76.17	7 24	15.96	9	1.14	7 21
15.12	56	69.39	58 44	14.89	37	89.58	50 49	15.12	44	12.97	54 46	15.43	51	76.47	7 48	12.38	9	1.15	8 02
14.89	56	69.46	54 07	14.89	37	89.64	51 01	14.78	47	13.45	59 49	14.35	52	76.52	5 58	15.96	24	2.94	4 31
14.35	3 8	70.99	50 59	14.89	41	90.06	51 46	15.96	56	14.60	51 17	15.96	52	76.58	1 36	14.61	31	3.81	8 51
15.96	15	71.85	51 03	15.96	42	90.28	52 43	15.43	9 13	16.68	56 56	12.72	53	76.65	5 49	15.19	40	4.93	4 23
15.00	17	72.00	51 51	10.54	56	91.98	55 28	15.19	18	17.26	51 35	13.24	54	76.77	8 20	13.11	42	5.24	0 15
15.50	17	72.10	57 32	15.96	57	92.12	59 12	14.72	22	17.84	54 53	12.18	54	76.78	3 58	15.96	50	6.20	3 13
14.56	18	72.16	55 05	14.45	6 0	92.48	58 13	13.11	22	17.86	51 19	15.96	57	77.17	8 51	13.02	55	6.83	9 18
15.96	21	72.58	53 37	14.45	1	92.66	56 34	14.72	23	17.89	50 06	15.00	4 8	78.60	5 22	14.45	55	6.90	9 52
15.00	26	73.12	58 29	15.31?	9	93.64	50 36	15.77	31	18.89	57 28	14.56	12	79.10	8 45	14.30	56	6.92	7 52
15.96	26	73.23	56 25	13.47	18	94.75	58 11	14.35	32	18.99	56 05	14.56	14	79.27	4 30	12.59	8 2	7.67	7 25
14.56	31	73.77	55 32	15.96	26	95.77	54 48	14.19	32	19.08	57 17	15.50	20	80.10	8 24	15.43	4	8.02	7 40

25 prec. + 132 sec. — 2′ 24″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.45	8 4	8.03	8 39	15.00	3 56	77.20	14 46	15.31	7 0	0.04	17 18	15.77	2 48	68.90	22 33	13.94	5 57	92.18	20 24
15.77	16	9.43	4 03	12.89	57	77.33	12 49	14.67	3	0.32	10 19	14.83	48	68.96	25 57	13.80	58	92.40	28 44
13.15	18	9.68	1 55	15.77	4 0	77.68	19 17	15.43	11	1.35	16 35	15.77	50	69.20	29 23	14.19	58	92.40	25 55
7.96	18	9.72	5 29	15.00	2	77.87	13 32	15.19	15	1.86	11 33	14.56	55	69.78	25 20	11.62	6 1	92.76	25 09
15.96	23	10.31	2 23	14.56	4	78.18	17 57	15.43	16	1.97	14 41	14.72	3 0	70.36	25 53	15.12	2	92.84	24 24
15.96	32	11.46	7 49	15.19	4	78.19	14 44	15.96	27	3.33	15 25	13.80	5	71.01	26 13	15.96	8	93.55	26 50
14.35	36	11.98	5 45	14.04	7	78.53	19 30	15.50	33	4.05	12 40	14.45	6	71.16	26 36	14.56	10	93.83	23 56
14.83	39	12.40	4 27	15.00	7	78.58	14 27	15.25	40	4.93	19 59	15.77	7	71.19	24 15	14.45	16	94.53	23 50
15.00	43	12.87	2 51	15.96	18	79.87	17 43	15.43	40	5.01	44 47	15.96	16	72.42	21 09	15.96	36	97.00	24 32
15.19	45	13.10	9 37	14.14	19	80.06	19 28	12.89	44	5.48	15 55	15.43	18	72.59	29 21	11.99	38	97.28	20 33
11.99	46	13.26	0 57	12.59	21	80.30	12 11	14.56	48	5.99	12 48	14.35	18	72.64	25 55	15.00?	52	99.03	21 08
15.00	52	13.96	4 40	15.96	27	81.04	16 42	15.31	57	7.08	12 55	15.43	20	72.90	27 46	15.77	56	99.44	25 24
14.35	53	14.10	5 04	14.45	30	81.39	14 17	13.42	8 0	7.45	10 18	15.96	24	73.34	21 57	13.15	57	99.61	28 15
15.96	9 1	15.06	1 33	15.96	32	81.67	11 01	14.19	2	7.76	17 39	12.59	36	74.86	27 07	15.00	7 8	1.02	29 41
14.83	18	17.18	9 43	15.00	40	82.57	11 44	15.12	7	8.28	19 52	14.72	37	75.07	28 43	14.89	8	1.02	22 35
14.89	20	17.48	5 42	9.03	43	82.98	17 27	11.99	23	10.25	15 54	15.96	38	75.18	21 28	14.56	16	2.04	29 20
15.12	21	17.54	0 47	13.38	51	84.01	10 56	15.31	27	10.75	11 09	14.35	41	75.48	26 16	15.62	19	2.37	25 59
15.12	22	17.77	2 43	15.96	5 5	85.71	16 33	15.96	30	11.18	11 03	13.56	42	75.58	27 37	15.19	21	2.60	26 39
15.77	25	18.04	5 02	15.31	30	88.79	14 21	14.56	32	11.48	13 25	15.43	44	75.85	22 18	15.96	25	3.04	25 11
14.89	28	18.48	3 09	12.72	35	89.40	13 52	15.68	32	11.48	10 10	15.96	46	76.03	29 12	14.45	25	3.09	29 39
14.72	41	20.02	1 35	15.96	36	89.60	19 46	14.30	33	11.52	12 00	15.96	59	77.63	20 11	14.89	31	3.82	23 31
15.00	43	20.29	1 04	15.50	37	89.67	10 00	14.72	35	11.76	13 56	14.72	4 1	77.94	21 57	15.96	35	4.28	26 20
15.77	51	21.28	9 49	15.96	39	89.93	16 54	13.94	38	12.14	16 37	13.85	2	78.03	20 52	15.96	39	4.78	26 50
15.96	51	21.38	0 04	11.99	43	90.48	10 40	15.96	39	12.32	12 20	15.19	7	78.70	22 03	15.96	8 5	8.06	28 35
13.80	55	21.81	5 46	14.83	49	91.14	16 55	15.96	40	12.42	14 00	15.00	8	78.79	25 24	15.43	6	8.17	29 30
15.19	58	22.18	4 36	15.96	49	91.19	17 12	13.99	42	12.72	19 36	15.96	9	78.95	26 44	15.77	18	9.57	22 37
15.31	10 5	23.08	7 44	11.08	53	91.74	19 42	14.89	57	14.49	11 14	15.77	14	79.57	26 41	13.33	24	10.43	28 43
10.86	7	23.35	1 48	15.43	56	92.08	17 26	12.59	9 3	15.28	16 29	14.35	22	80.45	29 48	13.61	32	11.35	26 56
12.18	7	23.36	5 57	14.30	6 10	93.81	11 01	15.12	6	15.62	18 03	15.43	23	80.66	28 49	14.83	43	12.69	28 10
14.89	8	23.49	7 47	15.96	14	94.29	18 58	15.00	19	17.30	15 31	14.45	28	81.23	23 07	15.96	54	14.12	26 06
14.83	9	23.56	5 17	15.43	14	94.35	17 37	15.96	36	19.41	17 55	14.45	29	81.37	22 07	14.61	9 6	15.51	22 31
12.38	17	24.53	5 24	13.94	17	94.63	14 38	14.45	46	20.57	14 17	14.89	32	81.75	28 31	12.59	10	16.00	24 37
15.96	18	24.67	3 13	15.12	18	94.83	15 47	15.96	51	21.19	10 54	12.59	44	83.15	24 21	15.00	10	16.09	23 01
12.38	24	25.38	3 49	15.00	19	94.89	16 12	12.59	53	21.47	16 20	15.96	44	83.21	25 49	15.96	16	16.85	29 31
11.62	36	26.89	3 47	13.02	19	94.95	19 07	15.31	54	21.62	10 41	14.61	46	83.41	29 35	14.89	19	17.14	21 36
15.96	2 45	68.39	18 48	12.18	22	95.31	16 56	14.72	56	21.89	14 55	15.96	53	84.34	24 59	15.96	22	17.57	27 17
11.62	48	68.79	13 56	15.19	23	95.37	14 37	12.38	59	22.21	18 10	15.12	5 3	85.61	27 50	15.96	24	17.72	23 15
12.72	50	68.95	16 40	15.96	25	95.70	14 40	15.96	10 2	22.61	18 05	14.83	5	85.78	23 54	12.80	26	18.01	27 23
15.77	52	69.28	12 09	14.89	26	95.81	17 17	11.80	5	22.97	14 31	14.83	5	85.80	24 19	15.96	26	18.08	25 00
14.78	56	69.73	14 27	14.83	32	96.47	16 37	15.25	7	23.19	19 34	14.09	6	85.96	24 46	14.72	27	18.11	26 31
14.78	59	70.08	13 02	15.96	34	96.82	11 47	14.30	8	23.26	13 28	15.96	11	86.60	26 47	11.20	44	20.18	28 46
15.37	3 0	70.21	19 58	13.56	38	97.27	13 03	14.09	9	23.40	14 48	15.77	17	87.33	24 22	14.61	44	20.26	20 14
14.72	5	70.85	15 04	15.19	41	97.70	10 36	14.72	12	23.80	15 53	15.50	20	87.64	27 48	15.62	44	20.29	27 43
15.31	13	71.79	15 05	15.00	42	97.76	12 42	13.80	15	24.14	12 47	14.72	20	87.70	29 53	15.50	45	20.38	20 45
14.72	16	72.23	19 57	14.83	50	98.79	13 06	15.00	18	24.62	19 08	14.19	21	87.82	20 45	14.04	48	20.67	25 14
12.89	22	72.96	13 47	14.35	51	98.87	12 51	15.96	37	26.86	18 24	15.96	35	89.56	29 57	15.19	50	20.98	27 22
13.85	42	75.39	10 30	12.38	54	99.22	12 08	15.96	40	27.26	13 31	15.96	38	89.90	21 35	15.96	52	21.16	20 24
14.83	47	76.07	13 08	13.94	58	99.75	11 29	15.31	2 41	68.01	29 27	14.61	40	90.16	24 48	15.19	53	21.32	22 54
14.89	55	77.03	18 15	15.19	58	99.78	15 18	15.96	42	68.15	25 11	15.77	48	91.10	23 30	15.96	53	21.35	20 32
15.96	55	77.07	14 00	14.72	7 0	0.01	17 26	15.62	47	68.80	24 52	14.35	50	91.36	25 36	15.43	55	21.61	28 28

25 prec. + 133 sec. — 2′ 24″.

751—760				761—762			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″
15.50	9 58	21.96	27 21	13.85	10 44	27.67	20 10
12.59	10 2	22.50	21 54	13.70	46	27.92	27 50
15.19	2	22.52	26 14				
15.96	4	22.67	29 01				
15.43	13	23.85	26 14				
15.00	17	24.26	26 56				
15.19	23	25.03	27 39				
13.61	26	25.39	27 12				
14.30	28	25.61	23 55				
15.62	33	26.25	28 33				

25 prec. + 133 sec. — 2′ 31″.

8^h — 9^h Area 12. Centre for 1900: $9^h\ 3^m + 59°\ 40'$. + 59°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.37	58 5	62.07	1 05	14.33	2 29	96.01	6 37	15.08	58 24	64.73	12 07	14.37	2 41	97.60	13 12	15.27	57 31	58.13	23 17
14.24	10	62.72	3 26	14.46	42	97.73	9 38	12.93	34	66.05	11 27	14.79	42	97.66	15 01	14.93	34	58.59	24 52
13.75	12	63.03	6 09	14.60?	44	98.01	3 46	12.61	42	66.96	16 58	15.27	42	97.70	11 57	14.65	47	60.21	20 10
15.27	22	64.30	8 39	14.24	3 4	0.50	6 20	12.61	59 6	70.13	14 42	12.12	48	98.42	14 16	13.38	51	60.71	22 26
14.20	26	64.84	9 48	14.93	4 3	8.12	3 01	14.69	7	70.26	17 42	12.29	3 4	0.54	17 04	14.37	53	61.01	22 57
14.12	31	65.47	6 33	14.03	29	11.47	8 09	12.93	10	70.60	14 48	15.08	23	2.93	13 42	14.79	54	61.14	22 01
13.52	38	66.34	7 56	14.24	30	11.62	9 52	15.08?	17	71.52	16 27	12.61	29	3.66	17 12	15.27	58 29	65.51	23 36
14.55	40	66.56	5 23	14.60	49	14.00	0 39	14.84	22	72.19	11 06	15.27	34	4.34	18 57	12.71	55	68.81	24 28
14.93	52	68.15	9 46	12.93	50	14.06	8 16	13.63	31	73.36	17 01	12.61	42	5.32	19 15	11.64	59 24	72.57	26 32
14.46	59 8	70.25	3 57	8.19	50	14.10	7 14	8.28	44	74.91	16 49	13.95	47	5.96	19 49	13.83	31	73.38	21 50
14.24	11	70.62	0 08	15.27	52	14.36	8 14	13.83	45	75.03	15 42	13.91	4 36	12.30	18 15	15.27	42	74.83	22 29
13.20	15	71.15	0 50	14.84	5 1	15.51	4 44	14.12	47	75.37	15 53	14.46	38	12.56	18 06	14.60	0 28	80.71	24 12
14.69	17	71.33	6 48	14.84	7	16.27	2 42	15.27	47	75.38	15 08	14.84	44	13.36	19 58	14.46	28	80.73	20 42
13.75	22	72.00	7 40	15.27	36	20.00	8 43	13.10	54	76.20	12 01	14.84	56	14.86	10 47	9.51	40	82.17	29 43
15.27	32	73.35	7 42	14.55	43	20.97	1 35	11.48	55	76.37	15 26	15.27	5 15	17.22	16 11	15.27	1 32	88.79	29 01
14.60	56	76.31	1 03	12.45	44	21.04	6 56	14.03	0 4	77.53	18 30	14.60	23	18.30	11 16	14.33	34	89.00	25 36
14.46	0 9	78.02	9 01	11.32	59	22.95	9 12	14.60	5	77.61	18 40	14.55	26	18.61	16 01	14.37	41	89.91	22 41
13.95	16	78.94	5 07	15.27	6 0	23.12	7 40	14.60	11	78.42	18 28	13.71	34	19.67	17 11	14.55	53	91.48	27 35
14.55	16	78.96	0 58	13.63	1	23.27	1 10	13.91	28	80.54	15 38	11.32	35	19.85	14 07	11.48	2 10	93.60	22 55
14.69	23	79.80	6 30	15.08	12	24.69	7 47	13.56	36	81.63	14 10	14.37	6 17	25.24	13 21	13.75	15	94.30	22 57
14.24	45	82.63	1 41	13.56	40	28.19	2 52	13.45	43	82.45	16 22	14.93	27	26.49	19 54	14.60	20	94.89	22 01
13.71	1 1	84.74	1 59	13.27	46	29.08	9 30	13.67	51	83.46	19 59	14.60	34	27.39	16 59	12.55	43	97.86	20 02
15.27	6	85.41	5 31	14.33	48	29.24	3 36	13.75	1 7	85.52	15 20	14.60	42	28.38	17 39	15.27	52	99.01	22 28
14.60	10	85.84	3 29	14.55	7 5	31.43	1 14	14.93	31	88.62	18 25	14.74	56	30.20	19 40	15.27	3 0	99.98	22 42
13.83	20	87.11	4 28	15.27	8	31.82	9 59	14.60	34	89.04	18 11	11.64	7 5	31.27	18 56	15.27	4	0.58	28 44
11.96	33	88.81	1 12	14.60	38	35.74	3 10	14.60	56	91.77	15 20	13.95	8	31.67	15 56	13.34	14	1.72	27 18
14.60	39	89.56	9 40	14.03	48	36.96	0 37	14.79	56	91.86	18 46	13.52	25	33.82	18 24	15.27	14	1.82	26 35
14.46	58	92.03	8 02	12.77	52	37.57	3 34	13.56	2 25	95.57	16 41	14.20	33	34.85	10 30	12.71	26	3.34	25 18
15.08	2 21	94.97	6 15	14.60	58 0	61.66	16 30	15.27	27	95.82	12 57	13.34	51	37.15	13 46	13.10	28	3.51	21 28
15.08	22	95.12	6 15	13.38	8	62.62	14 31	15.27	33	96.55	18 26	14.60	57	37.94	18 37	14.03	41	5.27	23 18

25 prec. + 116 sec. — 5′ 59″.

Area 12.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$\frac{y+40'}{y-20'}$	Int. magn.	α	x	$y-20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.52	3 45	5.67	23 36	13.38	2 20	95.01	30 14	13.13	1 30	88.63	49 44	14.84	0 14	79.18	53 37	15.27	1 38	89.84	2 21
12.83	4 5	8.25	22 19	15.27?	30	96.19	35 49	14.46	2 1	92.58	43 14	14.24	44	82.92	55 33	14.33	2 2	92.80	3 38
14.24	6	8.33	27 35	15.27	41	97.57	36 33	15.27	6	93.19	46 09	15.27	48	83.47	57 44	14.93	11	93.92	1 13
14.24	13	9.25	24 28	8.48	44	97.96	39 36	15.27	20	94.91	49 52	15.27	48	83.50	59 40	15.27	23	95.35	7 26
11.32	14	9.39	28 29	15.27	46	98.23	33 44	14.60	36	96.91	47 05	12.29	1 26	88.16	59 22	14.16	36	97.07	0 50
15.27	59	15.17	20 26	15.27	3 11	1.46	34 32	14.60	42	97.69	42 38	13.00	36	89.44	59 57	15.27	42	97.72	3 47
15.27	5 10	16.53	25 13	11.96	16	2.10	34 57	14.84	52	99.04	47 25	12.29	39	89.80	56 48	14.93	3 14	1.77	7 43
13.75	15	17.18	27 06	14.16	24	3.07	36 20	14.55	3 30	3.76	45 50	15.27	59	92.39	57 40	14.16	51	6.40	4 13
14.46	41	20.49	21 13	13.13	36	4.57	39 40	14.33	4 16	9.53	42 16	14.84	2 9	93.62	58 34	13.83	58	7.28	7 40
14.16	51	21.79	25 32	14.84	45	5.69	38 34	14.03	26	10.76	47 15	15.08	37	97.11	54 52	15.08	4 11	8.88	4 55
13.95	53	22.05	20 30	14.37	49	6.27	33 55	12.67	32	11.56	40 02	15.27	3 0	0.00	55 44	14.12	15	9.37	5 45
14.03	6 34	27.22	28 51	14.16	50	6.37	38 12	14.46	33	11.70	46 01	15.27	16	2.06	59 29	13.00	27	10.88	4 42
15.27	50	29.25	27 22	11.96	57	7.24	30 19	13.52	35	12.00	41 36	11.16	45	5.68	58 05	14.69	28	11.00	3 10
14.12	53	29.61	29 16	14.37	59	7.53	38 22	13.34	41	12.67	44 31	14.84	55	6.84	52 07	15.27	35	11.87	3 11
14.12	7 1	30.63	28 10	13.63	4 7	8.46	37 27	14.03	5 45	20.72	41 40	11.90	4 16	9.50	50 22	14.03	5 2	15.15	7 01
13.83	5	31.12	28 22	10.29	16	9.63	31 47	14.37	52	21.68	47 40	14.16	18	9.79	52 54	14.03	25	18.05	6 19
15.27	13	32.13	24 16	13.63	46	13.41	34 04	12.45	6 8	23.67	43 04	13.91	43	12.88	51 00	11.96	27	18.39	1 24
14.46	20	33.01	28 42	15.08	49	13.81	31 17	14.16	10	23.85	45 25	13.71	47	13.46	55 18	15.27	56	21.92	4 04
14.84	40	35.56	20 44	15.27	55	14.55	36 36	14.24	25	25.81	46 03	14.16	5 3	15.41	53 21	14.46	6 4	22.88	5 29
15.27	41	35.72	21 50	13.24	56	14.74	30 15	13.83	34	26.88	40 35	11.96	5	15.62	59 55	12.45	6	23.25	4 38
13.17	50	36.84	24 57	14.69	5 56	22.31	32 11	15.08	35	27.02	45 32	14.37	23	17.84	56 46	12.61	18	24.75	6 15
13.83	55	37.51	26 06	12.12	6 0	22.76	32 14	15.27	54	29.41	46 53	14.12	23	17.88	58 12	13.00	27	25.76	9 53
14.93	56	37.59	21 42	14.60	6	23.53	37 30	13.63	59	30.13	44 24	13.52	36	19.52	54 19	14.33	43	27.78	6 39
15.27	57 47	60.33	36 30	13.27	14	24.60	39 31	15.27	7 14	31.96	42 15	13.91	50	21.36	51 51	15.27	7 6	30.63	7 36
11.32	53	61.15	39 25	15.27	22	25.62	39 40	15.27	20	32.77	47 00	13.56	6 5	23.20	52 08	13.56	43	35.33	3 02
14.03	58 19	64.46	38 09	15.27	22	25.62	32 34	15.27	21	32.90	44 28	13.91	23	25.42	55 18	15.27	48	35.88	3 14
15.27	30	65.90	37 00	11.00	39	27.72	36 29	13.95	33	34.43	42 03	13.95	24	25.62	54 42	13.75	52	36.47	5 10
11.32	40	67.12	39 05	15.08	7 8	31.45	34 48	11.96	38	35.04	42 40	13.67	39	27.42	59 47	15.27	57 31	59.22	12 43
14.46	42	67.31	31 19	13.63	27	33.79	39 22	11.96	40	35.22	48 19	14.60	54	29.35	58 04	14.55	40	60.29	15 14
14.24	50	68.43	31 13	15.08	28	33.88	39 56	14.55	49	36.44	48 41	14.79	7 28	33.58	58 39	11.96	40	60.30	19 00
11.96	54	68.83	36 26	13.56	33	34.57	36 23	13.10	57 29	58.53	56 53	13.27	36	34.53	58 33	14.37	58 42	68.02	17 07
13.27	59 12	71.11	35 41	14.33	39	35.38	35 37	14.46	33	59.03	53 30	14.12	38	34.90	50 21	14.46	58	69.97	14 24
12.83	14	71.41	31 59	13.95	40	35.39	37 34	14.46	40	59.92	57 08	14.84	57 42	60.33	4 23	15.27	59 20	72.74	11 26
14.93	32	73.75	38 38	14.69	43	35.79	30 45	13.91	44	60.35	56 24	14.79	45	60.68	5 24	14.33	22	73.01	11 48
11.61	52	76.19	30 35	15.27	44	35.98	36 03	14.93	46	60.69	52 35	13.83	48	61.13	1 07	11.64	24	73.23	15 50
13.56	0 0	77.28	39 40	15.27	57 28	58.14	43 21	15.27	47	60.73	56 37	14.69	51	61.44	9 53	13.38	28	73.66	14 25
14.79	15	79.15	38 16	14.84	33	58.81	45 45	13.56	58 20	64.97	55 36	13.91	51	61.50	5 17	14.84	0 0	77.66	12 13
15.08	16	79.29	35 57	14.37	58 1	62.35	46 00	15.08	27	65.78	50 54	13.20	58 10	63.85	3 58	15.27	1	77.78	11 23
13.38	20	79.77	38 42	14.33	44	67.68	45 52	14.24	40	67.39	58 18	14.60	28	66.06	5 49	14.55	7	78.49	17 41
15.08	23	80.18	39 11	6.19[1])	58	69.47	44 51	15.08	47	68.34	56 48	15.27	29	66.22	6 42	13.63	23	80.54	12 04
14.12	24	80.25	38 00	15.27	59 4	70.31	40 14	14.16	58	69.62	51 41	13.45	43	67.92	4 39	14.12	25	80.73	15 35
14.46	34	81.59	31 43	12.71	12	71.21	46 04	13.95	59 16	71.97	50 53	14.93	53	69.23	5 32	14.84	27	80.98	18 33
15.27	45	82.86	35 13	14.69	25	72.87	42 21	11.32	18	72.19	55 23	13.27	59 0	70.01	4 36	14.37	28	81.13	13 58
14.55	1 5	85.50	35 37	15.27	33	73.92	46 31	14.60	20	72.37	51 08	14.46	8	71.08	3 27	12.45	28	81.14	18 22
14.55	29	88.45	32 36	13.95	39	74.70	45 25	14.74	27	73.26	59 57	14.79	12	71.63	6 59	14.60	29	81.25	18 44
14.55	39	89.70	33 47	14.42	40	74.88	40 04	14.55	36	74.43	54 58	15.27	31	73.90	1 51	12.55	55	84.48	10 21
15.27	46	90.61	32 17	13.10	47	75.68	44 44	14.03	57	77.06	52 03	13.52	46	75.82	3 58	14.03	1 14	86.85	15 18
14.93	48	90.84	38 48	13.10	0 13	78.93	46 14	13.71	57	77.07	55 49	12.29	48	76.01	0 42	14.37	17	87.25	15 49
7.89*	2 9	93.57	33 31	14.55	34	81.56	46 42	14.03	0 7	78.26	51 40	13.91	1 26	88.22	4 53	15.27	25	88.21	15 21
11.00	12	93.90	37 58	13.38	1 22	87.62	47 42	13.27	9	78.53	54 11	12.61	34	89.29	1 15	14.37	32	89.03	17 52

25 prec. + 117 sec. — 5′ 59″.

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[1] Vis. magn. from Harv. Ann. **50**, red. to phot. magn. by Harv. Ann. **71**, I p. 7.

401—410				411—420				421—430				431—436			
Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.60	1 33	89.23	13 34	14.03	3 7	0.88	13 14	14.60	5 7	15.70	15 34	14.16	7 6	30.53	17 31
14.65	38	89.85	10 12	11.80	16	2.01	18 15	15.27	14	16.57	11 06	14.07	15	31.61	10 10
10.08	59	92.45	19 38	13.38	59	7.33	19 10	14.12	18	17.14	16 32	15.27	32	33.74	11 39
14.84	2 10	93.85	13 27	12.93	4 7	8.33	10 02	14.33	20	17.34	12 28	14.46	38	34.49	14 56
14.79	11	93.95	11 41	12.87	9	8.53	15 35	15.08	30	18.63	19 18	13.56	55	36.60	15 58
14.16	12	94.09	19 59	13.20	20	9.94	19 37	15.27	6 10	23.61	19 13	13.10	58	36.95	12 21
13.10	16	94.50	13 05	12.71	21	10.00	16 58	13.27	25	25.44	17 03				
14.79	36	97.03	18 49	14.37	27	10.82	14 41	13.52	28	25.84	17 57				
14.55	38	97.23	13 06	15.27	39	12.23	15 59	12.61	44	27.85	16 33				
15.27	48	98.45	15 20	12.12	59	14.78	11 18	14.33	53	28.86	13 14				

25 prec. + 117 sec. — 6′ 2″.

10^h — 11^h Area 13. Centre for 1900: $11^h\ 3^m + 59° 50'$. + 59°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.76	57 53	60.73	14 19	14.93	3 21	2.61	16 59	13.38	58 36	66.44	27 25	15.69	5 24	18.28	20 11	15.69	0 31	81.18	33 57
14.58	57	61.23	19 08	12.58	25	3.19	13 56	13.97	59 3	69.84	28 12	13.90	25	18.48	23 18	14.75	39	82.17	33 39
14.14	59	61.53	15 13	14.58	25	3.20	10 15	15.28	27	72.97	21 06	12.58	46	21.17	21 05	14.38	45	82.88	36 41
11.79	58 2	61.85	16 23	15.50	29	3.66	16 17	12.20	45	75.22	28 38	7.88	47	21.31	26 37	12.94	1 11	86.18	36 18
15.00	5	62.23	16 08	14.93	53	6.79	11 36	15.69	49	75.67	22 17	15.03	6 50	29.21	20 28	15.24	44	90.39	33 35
15.07	5	62.26	16 15	14.04	4 4	8.18	19 18	15.50	0 25	80.24	23 46	15.69	7 10	31.75	25 49	14.65	58	92.09	32 50
15.69	5	62.33	11 39	15.69	27	11.09	18 49	15.69	37	81.82	21 07	15.69	10	31.85	29 01	13.11	2 10	93.64	31 31
14.58	42	67.01	10 08	13.62	28	11.26	17 57	13.55	38	81.99	23 44	14.72	24	33.62	21 57	13.55	22	95.18	35 24
15.69	46	67.45	12 07	13.90	31	11.56	16 53	12.76	53	83.85	28 06	15.69	51	37.02	21 01	15.24	45	98.16	37 44
11.12	59	69.16	10 56	13.62	35	12.16	10 58	14.72	1 27	88.12	24 31	15.69	52	37.19	29 53	15.07	3 5	0.69	36 23
15.69	59 7	70.20	10 23	12.94	40	12.80	11 35	13.48	27	88.21	20 31	15.10	59	38.05	27 04	15.69	30	3.76	33 16
15.69	12	70.87	13 14	15.69	52	14.33	15 32	9.97	36	89.28	21 16	12.39	8 6	38.94	28 27	15.69	32	3.99	35 25
15.17	14	71.11	17 41	13.11	57	14.91	10 59	15.69	2 5	93.06	26 11	15.69	7	38.99	27 00	15.69	52	6.62	35 55
13.45	25	72.56	18 15	15.10?	5 25	18.48	16 31	14.82	19	94.82	23 25	11.79	57 55	61.34	33 00	15.24	4 44	13.15	34 35
15.28	40	74.36	11 41	15.07	30	19.15	14 48	14.48	25	95.62	29 19	13.69	58	61.74	34 37	15.69	56	14.74	37 16
15.69	52	75.92	18 30	15.50	57	22.59	11 00	15.35	26	95.74	24 54	15.69	58 9	63.20	36 04	15.50	57	14.85	33 33
11.79	0 35	81.46	11 18	11.79	6 2	23.24	13 18	15.69	35	96.84	29 46	13.86	28	65.54	34 59	14.93	5 36	19.72	32 42
14.93	47	82.97	10 56	15.50	8	24.06	13 30	15.69	37	97.10	20 06	14.82	40	67.06	32 47	15.35	6 27	26.23	33 05
15.69	1 31	88.58	14 02	15.69	20	25.60	18 36	15.07	51	98.91	29 33	13.28	58	69.42	35 20	15.69	7 30	34.19	30 36
14.41	39	89.59	19 07	15.00	44	28.69	19 19	15.69	3 0	0.02	20 28	13.97	59	69.51	32 17	14.38	45	36.03	37 09
12.39	39	89.60	12 30	15.28	7 6	31.45	19 28	15.10	3	0.45	28 34	12.76	59 6	70.40	37 22	14.93	49	36.54	39 58
14.89	42	89.99	16 48	14.72	17	32.85	17 10	14.65	9	1.15	28 13	14.65	14	71.41	33 50	14.07	8 10	39.21	37 25
14.41	50	91.09	12 25	13.28	17	32.85	19 33	14.93	12	1.56	29 24	14.38	28	73.15	36 37	14.07	57 52	61.26	42 33
14.75	2 3	92.72	18 58	10.05	32	34.81	11 41	13.28	14	1.79	25 11	15.10	30	73.42	32 37	14.72	56	61.74	42 46
15.07	12	93.84	14 25	14.82	41	35.93	10 16	14.79	30	3.81	20 22	14.55	31	73.52	38 01	14.48	58 5	62.82	43 30
13.79	36	96.93	19 08	13.11	47	36.64	13 10	14.75	45	5.72	25 26	14.72	59	77.06	32 33	15.69	15	64.11	49 39
14.82	49	98.57	15 12	14.72	57 56	61.28	20 36	15.24	51	6.53	26 42	15.69	0 1	77.31	37 36	14.14	24	65.28	40 10
14.38	52	99.00	18 37	15.50	58 10	63.12	22 32	9.48	4 42	12.96	26 12	15.10	18	79.52	37 30	15.17?	36	66.81	42 15
13.79	3 6	0.70	12 53	15.24	30	65.71	24 38	14.75	49	13.83	21 29	15.69	22	80.05	34 58	12.20	39	67.13	44 26
14.65	13	1.63	15 20	10.01	31	65.79	26 51	15.69	5 10	16.60	26 36	15.28	24	80.24	32 15	15.28	41	67.35	48 28

25 prec. + 91 sec. — 8′ 6″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$\frac{y+50'}{y-10'}$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.20	58 58	69.50	40 36	12.39	0 11	78.82	57 25	9.63	59 7	70.92	6 00	13.97	7 0	29.89	9 36	14.93	7 32	33.79	18 24
15.69	59 2	69.99	44 22	14.82	12	78.88	52 42	15.69	10	71.34	2 20	15.69	8 9	38.50	0 25	15.00	39	34.58	15 07
15.10	9	70.90	47 56	13.45	12	79.00	53 42	14.14	27	73.41	8 13	15.69	58 0	62.77	13 50	9.84	40	34.75	17 51
14.21	15	71.67	44 31	14.65	54	84.25	50 33	12.58	27	73.48	7 01	11.99	23	65.58	10 41	14.58	49	35.83	12 25
15.69	25	72.94	44 09	15.24	55	84.28	54 11	15.10	30	73.84	8 38	12.94	46	68.50	16 18	15.00	8 3	37.57	15 15
15.00	27	73.21	46 01	14.82	56	84.46	51 51	12.94	39	75.00	6 02	15.00	52	69.19	16 13	14.14	10	38.44	15 19
13.97	53	76.41	40 08	15.10	1 5	85.63	56 01	15.50	53	76.66	9 06	15.69	57	69.83	13 38	13.62	58 5	63.55	20 26
14.75	0 34	81.55	48 41	13.38	12	86.52	50 43	14.65	53	76.68	6 05	14.89	59 10	71.51	18 23	8.75	13	64.63	23 19
15.24	41	82.48	48 49	14.04	18	87.18	52 20	15.69	59	77.40	1 06	14.04	14	71.89	13 23	15.00	15	64.81	20 48
14.07	1 3	85.24	47 31	10.79	20	87.53	52 57	14.04	0 10	78.83	1 30	15.10	14	71.95	17 39	15.69	26	66.20	29 24
15.50	4	85.42	45 27	15.07	29	88.57	52 59	14.65	12	79.10	2 26	14.38	20	72.73	11 01	9.92	28	66.43	20 47
13.35	22	87.73	49 37	15.69	34	89.19	52 11	15.10	15	79.40	8 40	15.69	34	74.49	15 35	13.55	38	67.70	29 36
15.28	34	89.13	48 45	12.58	48	91.00	57 42	12.76	18	79.82	4 49	15.69	37	74.82	18 07	11.29	43	68.25	22 10
14.48	48	90.92	41 02	11.35	58	92.25	58 33	15.00	22	80.29	8 59	15.69	48	76.13	14 18	11.99	44	68.47	21 57
11.57	2 0	92.50	47 52	15.28	2 0	92.49	53 04	15.24	22	80.37	6 23	15.35	0 19	80.07	17 15	15.07	59 4	70.89	29 58
15.50	3	92.78	47 40	12.94	0	92.52	55 26	15.69	48	83.61	6 27	12.76	32	81.57	11 49	11.99	4	70.89	21 00
15.07	10	93.73	42 23	12.76	22	95.26	58 00	15.69	1 5	85.72	7 53	15.69	32	81.57	14 52	14.14	10	71.57	23 23
14.86	12	93.97	49 52	14.93	25	95.62	56 08	10.93	36	89.58	6 19	15.10	32	81.66	18 24	13.62	23	73.20	28 27
15.35	13	94.08	40 42	14.55	26	95.78	50 04	15.69	42	90.26	7 45	15.69	55	84.43	17 43	15.35	30	74.12	29 37
15.69	16	94.51	47 50	14.38	27	95.89	55 47	14.14	49	91.17	7 56	13.90	1 1	85.25	10 12	14.41	46	76.10	21 27
15.69	43	97.86	49 35	11.99	3 1	0.14	51 19	15.69	2 18	94.76	1 57	11.79	14	86.78	16 06	14.14	48	76.37	27 03
8.05*	58	99.70	45 23	15.69	22	2.80	58 13	12.58	20	95.02	8 46	13.97	36	89.58	14 01	9.33	52	76.80	22 40
15.69	3 5	0.66	44 04	15.10	28	3.46	53 50	11.16	44	98.01	1 39	15.28	49	91.14	10 50	12.76	56	77.25	29 54
15.69	22	2.81	41 57	11.16	39	4.92	52 18	14.65	3 15	1.82	6 28	15.69	52	91.61	12 09	15.50	0 3	78.12	25 43
13.72	24	3.06	47 23	15.24	4 30	11.21	52 26	14.75	17	2.08	1 06	12.20	2 11	93.98	18 26	14.58	4	78.35	27 01
15.69	35	4.45	46 49	15.50	34	11.76	52 00	13.79	18	2.23	2 51	15.69	15	94.37	16 26	12.20	12	79.32	27 10
15.07	4 10	8.75	48 56	15.50	5 35	19.45	59 12	15.69	22	2.73	1 49	15.69	17	94.62	12 47	13.11	16	79.72	29 47
14.89	49	13.74	47 23	15.50	6 5	23.21	53 49	11.79	25	3.11	4 29	15.35	20	95.02	19 24	14.31	19	80.09	23 05
15.69	52	14.16	42 34	15.69	29	26.18	56 45	15.00	29	3.62	7 59	14.21	26	95.76	17 59	15.28	33	81.85	29 52
15.69	5 3	15.46	46 32	15.69	29	26.20	56 16	15.69	30	3.70	9 59	14.07	31	96.45	10 34	15.35	48	83.67	27 42
15.17	44	20.60	40 36	15.50	30	26.30	50 38	15.69	59	7.39	1 40	13.97	46	98.31	14 39	13.69	50	83.90	26 50
15.69	6 11	24.02	43 33	11.16	31	26.41	57 06	14.04	4 0	7.54	2 34	13.90	47	98.40	16 54	14.41	1 11	86.57	27 50
14.04	12	24.24	41 12	12.20	35	26.96	56 44	14.14	4	8.05	7 59	14.21	56	99.47	12 05	15.69	31	89.00	28 58
14.14	23	25.51	43 01	14.75	48	28.60	58 30	11.99	16	9.49	7 35	11.79	3 27	3.40	17 59	13.11	39	90.06	26 13
15.69	30	26.43	42 46	14.24	7 18	32.27	57 58	15.50	22	10.21	6 20	12.94	44	5.48	10 44	14.89	2 14	94.34	26 04
14.38	47	28.58	40 24	13.90	25	33.21	52 51	13.11	45	13.13	8 04	14.31	4 0	7.38	13 08	15.07	19	94.95	26 30
14.89	7 5	30.85	48 56	11.79	30	33.77	56 26	15.69	54	14.28	4 20	15.35	4	7.87	15 29	14.58	36	97.04	22 32
13.79	19	32.58	40 57	14.31	47	35.99	56 47	13.31	57	14.61	0 11	14.55	10	8.66	10 47	15.00	49	98.66	26 19
14.04	26	33.53	40 12	13.11	49	36.19	54 31	15.50	59	14.78	1 48	12.39	27	10.83	17 27	15.69	3 1	0.09	23 29
9.32	36	34.81	41 20	15.10	54	36.89	51 49	11.57	5 8	15.97	7 29	11.99	58	14.67	19 07	14.75	2	0.29	29 07
15.69	57 57	62.05	56 08	15.69	57 45	60.76	6 35	15.00	16	16.98	1 48	15.07	5 41	19.95	17 27	12.94	9	1.14	20 58
14.55	58 5	63.05	50 51	11.99	48	61.11	2 05	14.04	22	17.74	0 51	12.58	44	20.36	16 38	12.20	22	2.77	21 14
14.58	10	63.72	51 09	14.04	56	62.14	4 49	15.50	28	18.49	7 13	14.72	6 27	25.68	19 05	15.69	23	2.82	25 51
14.51	12	63.89	53 14	15.00	57	62.20	8 57	14.65	29	18.62	4 15	14.58	38	27.07	10 43	15.69?	26	3.18	29 17
15.50	57	69.56	54 42	14.14	58 1	62.75	6 42	14.31	40	19.94	1 23	12.50	39	27.20	19 35	15.69	42	5.17	23 05
15.69	59 2	70.22	53 15	15.69	5	63.21	7 36	15.07	6 2	22.65	7 25	15.69	43	27.65	11 41	15.69	56	6.87	27 59
11.99	8	70.90	59 13	13.86	22	65.41	2 17	15.69	24	25.48	7 59	14.04	50	28.53	17 26	13.72	4 1	7.54	22 45
15.69	34	74.22	51 28	12.65	39	67.46	9 30	10.91	42	27.69	8 54	15.69	57	29.42	14 21	13.86	24	10.40	24 34
15.28	47	75.81	52 06	15.69	48	68.55	4 00	15.17	44	27.89	6 54	12.94	7 1	29.86	11 30	15.69	37	11.99	25 29
15.24	0 7	78.29	52 02	15.17	51	69.02	0 18	15.50	52	28.93	2 44	13.21	26	32.92	11 08	14.75	55	14.17	29 18

25 prec. + 91 sec. — 8′ 6″.

401—410				411—413			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ″		m s	′	′ ″
12.76	5 50	20.96	27 24	15.69	7 26	32.78	20 04
14.89	6 6	22.91	27 59	12.39	33	33.67	22 27
12.58	7	23.10	25 55	14.75	8 4	37.55	22 35
14.82	7	23.12	23 46				
14.93	8	23.27	22 26				
14.75	28	25.69	20 48				
13.86	38	26.88	29 59				
15.69	44	27.59	24 21				
15.07	51	28.57	21 20				
13.62	7 25	32.72	24 42				

25 prec. + 90 sec. — 8′ 8″.

13^h Area 14. Centre for 1900: 13^h 22^m + 59° 30′. + 58°, + 59°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+90′	Int. magn.	α	x	$\frac{y+90'}{y+30'}$	Int. magn.	α	x	y+30′	Int. magn.	α	x	y+30′	Int. magn.	α	x	y+30′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.92	17 15	63.26	50 25	11.84	24 42	20.96	50 17	12.32	19 13	78.53	8 34	15.46	17 44	67.23	16 30	15.27	24 2	15.63	13 19
11.30	18 12	70.52	58 51	12.92	50	21.96	52 06	14.35	19	79.32	1 04	15.46	46	67.60	16 12	15.46	17	17.54	19 16
12.48	26	72.42	55 08	15.46	25 15	25.23	50 24	14.08	26	80.18	8 05	10.96	50	68.10	17 20	14.78	43	20.79	14 12
14.46	31	73.00	55 15	12.59	19	25.74	50 54	13.44	51	83.47	4 40	14.46	54	68.57	15 48	14.29	46	21.23	19 14
14.18	43	74.59	53 48	15.46	42	28.59	55 33	14.92	20 4	85.08	7 42	13.92	56	68.84	17 48	15.12	56	22.54	19 35
10.96	53	75.91	57 06	15.12	26 2	31.26	54 09	13.22	8	85.55	1 52	14.72	18 0	69.27	10 30	14.08	25 11	24.38	11 37
15.27	19 0	76.70	54 34	15.46	11	32.42	59 14	14.59	19	87.02	8 27	12.79	10	70.56	17 24	11.30	12	24.54	13 12
15.46	1	76.91	52 26	14.78	16	33.02	56 49	14.65	19	87.05	1 10	15.46	25	72.55	13 50	11.30	56	30.10	18 48
14.59	8	77.86	51 08	12.79	23	33.90	51 50	15.46	58	92.03	8 37	14.92	19 9	78.09	14 33	13.78	26 4	31.13	18 36
13.92	33	80.99	56 40	15.27	33	35.26	56 21	13.58	21 13	93.99	1 48	15.46	23	79.89	19 46	14.35	13	32.35	11 06
14.02	20 20	87.16	52 44	13.92	51	37.59	57 04	14.29	19	94.70	5 17	15.27	42	82.36	10 32	13.82	22	33.45	17 42
14.08	52	91.16	52 33	15.46	56	38.20	54 03	15.27?	44	97.88	3 04	15.27	46	82.87	19 40	12.40	23	33.61	13 34
12.92	21 2	92.45	50 36	15.27	27 8	39.79	56 38	15.46	50	98.78	9 46	14.92	20 2	84.96	14 20	14.92	24	33.76	18 26
14.65	2	92.58	52 02	14.78	23	41.65	56 36	13.22	52	99.03	8 19	15.12	6	85.47	17 38	15.46	17 25	64.97	27 01
15.46	20	94.82	55 40	15.46	30	42.55	52 13	13.09	22 19	2.39	4 25	11.48	11	86.11	14 06	14.98	18 20	72.00	24 33
10.14	34	96.69	51 52	14.65	32	42.85	58 18	14.59	23 9	8.87	8 25	13.31	16	86.66	16 18	13.78	22	72.25	21 27
13.82	57	99.59	50 48	14.98	17 14	63.28	1 50	14.59	23	10.62	7 45	15.05	21	87.34	19 56	13.44	34	73.85	21 20
14.65	22 17	2.18	55 41	15.46	19	63.89	2 30	15.46	23	10.69	0 02	12.79	22	87.50	14 01	14.46	35	73.92	23 45
13.78	23	3.00	54 44	13.92	32	65.63	6 24	13.82	54	14.58	5 28	15.27	28	88.18	15 13	15.46	39	74.44	27 24
15.46	49	6.32	50 52	15.27	43	67.04	1 18	13.22	24 0	15.46	2 29	14.02	58	92.11	15 25	14.65	58	76.89	27 21
13.78	55	7.08	52 00	15.46	53	68.31	3 56	14.65	12	16.89	8 27	12.21	21 5	92.92	10 56	14.65	19 1	77.23	24 32
14.92	23 23	10.76	54 51	15.12	55	68.53	3 23	11.48	27	18.84	6 52	14.29	19	94.74	17 09	14.29	30	80.85	26 37
15.12	40	12.94	59 35	13.82	18 0	69.13	5 27	15.46	59	23.02	8 30	14.65	21	94.98	11 03	14.02	30	80.92	23 03
14.65	49	14.10	53 06	15.18	1	69.31	0 25	15.12	25 29	26.81	5 40	14.18	35	96.83	18 26	14.65?	46	82.89	21 52
12.59	55	14.88	58 24	15.46	7	70.05	1 59	14.29	26 54	37.75	3 43	12.92	55	99.35	15 03	13.00	51	83.54	22 56
15.12	56	14.99	51 52	14.35	10	70.52	4 53	14.92	27 9	39.68	4 27	14.46	22 1	0.16	11 05	14.65	20 17	86.90	24 12
14.92	24 12	16.99	56 41	14.65	18	71.52	2 03	10.53	14	40.40	0 00	15.27	45	5.72	19 13	14.08	24	87.83	20 47
14.65	24	18.58	56 11	12.40	33	73.38	6 30	15.46	30	42.40	5 59	11.66	48	6.13	10 37	13.22	25	87.85	21 33
14.29	40	20.61	50 13	10.30	19 1	77.01	7 27	14.59	17 12	63.21	18 04	10.79	23 45	13.46	19 24	15.46	39	89.69	26 04
10.14	42	20.95	50 54	14.59	3	77.24	3 44	14.02	38	66.52	12 32	15.46	24 2	15.62	10 02	10.14	44	90.29	29 37

25 prec. + 57 sec. — 7′ 49″.

13^h

Area 14.

+ 59°, + 60°

151—200				201—250				251—300				301—350				351—378			
Int. magn.	α	x	y+30′	Int. magn.	α	x	y+30′	Int. magn.	α	x	y+30′	Int. magn.	α	x	y+30′ / y−30′	Int. magn.	α	x	y−30′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.66	20 54	91.56	23 17	14.35	22 6	0.73	39 31	15.46	20 25	87.98	45 39	14.65	21 39	97.33	51 25	13.82	20 56	92.00	3 38
14.46	21 6	93.10	28 31	14.46	8	1.05	35 24	15.12	26	88.17	48 49	14.92	44	97.94	53 20	13.44	21 15	94.34	0 00
14.65?	26	95.68	25 43	14.65	14	1.82	31 48	13.92	39	89.80	48 51	13.82	45	98.14	51 08	13.22	26	95.75	2 19
13.13	26	95.73	24 55	13.58	17	2.14	38 49	13.13	39	89.82	44 09	15.46	51	98.88	52 27	15.46	38	97.28	7 54
14.65	43	97.84	27 23	12.92	18	2.28	34 48	13.92	21 1	92.55	48 53	14.35	22 3	0.34	57 46	14.29	49	98.58	1 07
13.78	22 1	0.10	26 21	15.12	28	3.60	34 43	15.12	29	96.08	40 31	14.24	22	2.82	50 12	15.27	22 9	1.10	1 45
14.98	2	0.23	21 08	14.78	36	4.57	38 37	15.46	49	98.57	48 41	13.13	33	4.10	58 20	13.00	23 12	9.02	0 14
10.14	21	2.68	25 06	13.82	42	5.33	39 58	12.79	51	98.83	41 38	13.92	41	5.19	54 14	14.65	16	9.43	0 04
14.29	44	5.64	29 21	12.51	43	5.42	38 52	11.84	22 4	0.44	41 52	13.44	23 29	11.19	54 25	15.46	49	13.65	5 35
15.12	23 7	8.56	28 41	14.35	53	6.74	32 38	14.92	4	0.52	40 04	15.27	30	11.24	56 47	14.65	24 1	15.09	6 50
15.27	40	12.71	20 16	13.35	56	7.13	34 30	14.98	56	7.02	43 55	13.82	45	13.20	50 04	15.46	40	19.91	9 24
14.08	41	12.81	29 05	14.98	23 30	11.43	36 42	13.35	23 0	7.62	48 03	14.59	58	14.72	58 12	10.30	54	21.69	7 34
14.65	56	14.70	26 51	14.35	36	12.11	36 30	15.12	2	7.79	45 15	13.82	24 1	15.18	58 35	11.48	55	21.83	6 17
13.31	24 0	15.24	25 43	13.09	55	14.54	38 32	12.59	22	10.36	43 44	15.46	12	16.52	57 40	14.02	25 0	22.43	4 32
14.59?	11	16.69	22 25	15.46	24 4	15.67	36 19	14.35	26	10.83	44 46	14.65	19	17.41	55 11	14.35	11	23.85	2 54
15.46	12	16.76	27 24	13.92	14	16.94	33 04	13.78	27	10.91	48 37	14.92	43	20.44	51 35	13.92	37	27.10	5 18
15.46	18	17.51	27 02	14.59	25	18.39	34 25	14.35	37	12.18	48 25	13.92	57	22.16	50 43	13.22	38	27.17	5 25
14.65	21	17.87	29 28	15.27	36	19.75	39 04	14.65	24 18	17.42	47 01	14.98	25 1	22.70	59 16	12.88	38	27.23	7 56
14.29	24	18.35	29 11	9.98	54	21.98	34 27	14.18	21	17.81	42 30	14.78	8	23.54	56 54	14.46	40	27.49	5 56
15.46	44	20.87	24 48	15.46	59	22.63	31 56	14.85	35	19.51	49 56	14.92	28	26.05	52 05	15.46	26 4	30.49	3 58
15.46	25 3	23.31	23 31	13.35	25 33	26.92	34 26	15.46	47	21.06	43 23	14.02	36	27.04	57 21	14.46	37	34.58	1 20
12.32	16	24.94	26 04	14.65	34	27.06	33 40	14.59	49	21.25	49 40	14.92	47	28.49	58 17	15.46	39	34.77	1 43
12.40	36	27.47	28 08	15.12	55	29.74	35 41	13.58	51	22.21	42 55	12.21	54	29.36	59 56	13.82	55	36.83	3 29
13.54	36	27.52	21 16	12.67	26 1	30.56	30 10	14.46	25 14	24.45	42 46	14.92	56	29.54	51 03	11.66	55	36.83	1 48
14.46	55	29.92	22 52	11.13 :	5	31.05	36 35	14.59	29	26.30	40 05	15.46	26 13	31.75	56 31	14.59	27 6	38.16	0 46
15.27	56	29.97	21 05	14.02	43	35.87	35 06	14.18	32	26.66	44 28	14.91	27	33.47	55 22	11.13	7	38.31	1 30
12.40	58	30.31	24 58	14.18	44	35.97	38 31	14.65	41	27.80	42 37	13.78	39	35.01	52 00	10.62	35	41.75	3 06
15.27	26 14	32.36	20 15	13.58	49	36.56	37 40	15.46	53	29.34	47 23	15.12	27 10	38.82	54 21	14.02	37	41.98	3 21
14.46	23	33.45	20 14	14.65	58	37.67	38 14	14.59	56	29.67	45 58	12.59	17 34	66.82	7 47				
15.46	34	34.84	24 45	13.44	27 26	41.25	33 55	13.00	26 2	30.43	41 28	14.08	38	67.37	7 56				
14.46	35	35.00	25 22	14.46	17 16	64.21	42 55	15.27	16	32.28	47 35	14.18	39	67.47	2 39				
13.78	36	35.16	21 29	15.27	35	66.66	43 52	15.46	17	32.32	41 09	15.46	45	68.18	8 21				
14.18	43	36.03	27 43	15.46	46	68.04	45 51	15.46	20	32.72	42 06	14.59	54	69.27	4 07				
14.29	45	36.24	26 41	15.46	46	68.05	43 39	14.35	28	33.70	40 09	12.14	18 1	70.18	7 20				
14.59	51	36.98	20 05	15.46	18 20	72.28	47 29	14.29	30	33.95	48 54	11.30	11	71.43	5 16				
15.12	51	36.99	27 27	13.92	22	72.50	47 44	14.65	50	36.49	44 36	13.54	20	72.56	3 00				
15.46	27 31	42.09	28 33	15.46	27	73.12	48 58	14.08	27 14	39.55	44 23	13.09	31	73.95	6 33				
15.46	17 15	63.96	37 56	11.48	35	74.22	45 44	11.66	24	40.82	43 42	11.30	32	74.07	2 29				
14.78	22	64.81	35 04	15.46	39	74.71	47 53	15.27	17 20	64.86	55 45	13.92	44	75.59	4 16				
14.65	23	64.97	37 41	14.65	40	74.79	42 28	14.59	30	66.22	53 26	15.27	19 7	78.45	7 32				
15.46	54	68.89	35 52	14.46	46	75.56	40 10	14.29	18 43	75.34	56 35	11.13	29	81.15	2 09				
13.92	18 5	70.26	35 53	14.59	56	76.77	44 57	14.46	56	76.97	52 46	14.78	31	81.41	5 21				
14.98	40	74.71	35 36	12.88	58	77.11	49 11	14.65	19 6	78.21	54 56	14.18	32	81.53	3 34				
12.02	59	77.11	39 55	14.98	19 14	79.10	48 15	15.27	6	78.21	54 44	12.88	32	81.59	0 39				
15.46	19 40	82.25	30 27	15.27	45	82.99	42 51	14.08	15	79.35	56 31	14.46	20 1	85.13	7 00				
14.46	50	83.57	36 05	12.21	46	83.08	49 36	15.46	28	81.00	51 56	14.18	8	86.02	8 49				
14.59	20 31	88.70	33 13	15.46	47	83.29	49 14	14.98	20 9	86.10	54 19	14.65	12	86.51	3 03				
14.18	42	90.12	33 57	11.66	50	83.63	43 35	12.21	41	90.08	52 02	15.46	17	87.22	8 10				
14.59	21 2	92.68	30 24	15.46	51	83.70	41 49	15.46	45	90.61	57 33	11.48	42	90.23	1 02				
14.35	5	93.08	32 14	14.35	20 23	87.78	47 18	13.31	21 27	95.86	54 42	13.35	48	91.09	6 58				

25 prec. + 57 sec. — 7′ 49″.

Area 15. Centre for 1900: $15^h\ 17^m + 59^\circ\ 50'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.16	11 30	57.87	19 54	15.24	17 41	5.24	19 12	14.62	14 4	77.58	26 50	16.32	19 41	20.54	26 46	14.16	16 46	98.25	34 38
16.32	38	58.80	11 34	15.35	59	7.50	14 53	15.79	9	78.21	26 31	14.36	48	21.35	22 58	15.35	47	98.34	38 26
15.98	42	59.38	18 08	14.42	18 18	10.00	11 36	12.13	18	79.43	21 43	14.02	48	21.38	28 29	15.06	53	99.17	30 48
15.24	46	59.85	19 06	16.32	20	10.17	17 11	12.71	24	80.11	26 06	14.26	53	21.99	24 40	14.26	17 5	0.58	37 23
14.26	54	60.83	19 20	15.35	25	10.91	13 20	15.35	39	82.05	24 09	16.13?	20 1	23.04	24 34	15.79	6	0.74	30 02
15.48	12 1	61.81	13 03	11.44	51	14.18	16 16	13.42	55	84.11	26 52	10.70	3	23.29	25 26	15.18	14	1.83	31 33
15.24	14	63.44	11 46	12.13	19 0	15.35	12 16	11.78	15 4	85.28	27 52	15.66	4	23.37	20 14	10.42	20	2.58	38 33
15.24	37	66.35	11 38	15.54	11	16.80	17 11	14.47	13	86.39	29 42	14.68	6	23.67	25 32	15.24	23	2.88	36 54
15.79	48	67.72	12 57	13.64	14	17.06	18 39	15.85	16	86.81	29 56	12.51	19	25.25	27 32	12.13	30	3.80	38 02
14.78	54	68.51	16 59	14.95	15	17.21	12 37	15.48	19	87.14	25 08	15.48	25	26.09	21 39	12.51	33	4.15	31 56
14.16	59	69.25	17 16	13.69	18	17.59	19 54	15.24	26	88.06	23 59	11.78	28	26.40	29 24	14.89	34	4.27	37 53
13.78	13 8	70.37	16 51	15.85	25	18.54	16 54	14.78	27	88.20	25 00	15.24	28	26.49	27 30	14.89	37	4.72	30 51
13.69	15	71.19	11 23	11.78	39	20.32	19 08	15.79	54	91.64	25 16	16.32	43	28.36	26 11	11.28	43	5.39	34 58
14.62	18	71.63	14 16	16.32	42	20.67	13 44	16.32	16 5	93.01	22 38	15.54	44	28.52	25 40	16.32	46	5.89	30 11
15.35	19	71.73	10 15	14.52	47	21.39	17 59	16.32	5	93.02	22 59	15.06	21 1	30.66	26 07	15.98	49	6.17	35 47
15.79	32	73.46	18 42	15.35	53	22.08	12 14	13.69	7	93.28	25 52	16.32	3	30.86	24 01	13.12	18 16	9.66	32 02
14.68	49	75.61	19 01	15.66	54	22.20	18 23	16.32	9	93.47	21 52	13.69	29	34.16	26 11	13.46	18	9.89	39 15
12.71	53	76.04	18 59	14.42	20 5	23.67	12 51	16.32	19	94.79	23 51	14.26	39	35.44	22 36	12.91	19	10.03	37 12
16.32	14 12	78.54	18 05	14.02	9	24.10	11 58	13.55	24	95.47	24 57	16.13	41	35.69	20 42	15.54	39	12.51	33 58
16.32	15	78.92	17 15	14.52	16	25.08	17 45	15.54	26	95.63	21 24	14.36	11 31	58.40	33 59	15.85	41	12.80	30 20
15.98	33	81.22	13 01	14.68	23	25.96	16 54	15.66?	29	96.05	27 17	16.32	42	59.70	32 58	12.13	58	14.89	32 36
15.79	46	82.86	12 41	12.32	27	26.52	18 39	14.62	34	96.63	26 10	14.68	42	59.75	37 20	13.92	58	14.93	33 52
13.78	48	83.17	16 05	16.32	34	27.34	19 50	14.78	37	97.04	23 55	15.18	59	61.96	35 52	13.55	19 4	15.74	34 50
13.25	50	83.43	15 06	12.71	47	29.05	12 50	15.18	38	97.13	24 07	14.36	12 16	64.12	39 22	16.13	8	16.24	38 51
14.89	52	83.58	16 30	14.02	51	29.56	10 47	13.42	54	99.25	23 56	11.28	20	64.51	39 30	16.13	11	16.58	37 57
12.32	53	83.82	19 14	14.78	21 12	32.27	16 16	15.54	17 2	0.29	27 47	11.95	20	64.53	39 06	10.32	16	17.17	39 58
15.66	15 4	85.12	17 00	15.48	25	33.83	12 18	10.93	9	1.11	21 06	16.13	29	65.69	34 47	11.44	18	17.40	32 21
15.35	9	85.84	13 13	15.18	35	35.11	18 05	15.35	11	1.46	27 38	15.35	30	65.79	33 23	15.79	47	21.16	38 05
15.85	11	86.11	11 04	14.95	44	36.25	14 03	14.62	14	1.72	24 21	14.95	38	66.87	32 55	15.48	57	22.42	35 46
14.68	36	89.28	15 04	14.12	47	36.73	12 19	15.35	17	2.20	20 50	14.78	42	67.34	39 01	15.35	20 1	22.95	35 46
15.54	44	90.33	16 40	15.06	49	36.88	16 26	15.98	33	4.22	21 55	14.68 :	59	69.52	33 29	12.51	2	23.05	36 04
15.79	48	90.77	18 21	11.95	49	36.89	13 56	15.35	36	4.51	26 52	13.97	13 8	70.61	39 34	16.32	6	23.59	30 01
13.46	49	90.91	16 39	16.32	11 22	57.00	27 14	13.64	42	5.34	23 36	14.16	10	70.84	33 00	15.48	16	24.75	35 49
16.32	53	91.49	15 25	16.13	34	58.49	28 26	15.48	50	6.38	29 09	14.95	11	71.06	33 02	15.54	17	24.92	32 58
12.99	58	92.04	11 28	13.92	42	59.59	28 01	9.66	18 1	7.82	22 56	14.16	16	71.66	34 08	15.24	28	26.35	32 08
12.13	16 1	92.41	11 51	11.12	12 7	62.70	26 44	15.06	9	8.82	25 02	16.32	18	71.93	31 59	15.85	29	26.44	30 39
13.33	18	94.67	12 54	14.36	11	63.27	27 47	15.85	19	10.05	29 55	15.54	35	74.04	34 50	15.35	39	27.71	33 14
15.48	21	95.02	18 57	15.79	17	64.04	23 05	14.42	23	10.54	27 00	15.24	43	75.04	35 38	16.32	20 40	27.84	37 58
15.79	23	95.28	13 29	15.66	18	64.12	24 03	14.62	28	11.20	23 04	12.71	14 0	77.28	30 46	15.54	51	29.18	37 36
16.32	26	95.68	13 09	12.71	22	64.65	25 09	15.18	37	12.29	22 46	15.54	3	77.64	31 17	15.48	55	29.78	32 23
15.89	34	96.72	15 20	15.18	39	66.77	27 43	16.32	38	12.44	26 59	15.54	18	79.50	35 03	13.33	21 5	31.00	32 46
14.68	35	96.86	19 59	14.42	59	69.38	25 44	15.35	43	13.08	22 07	15.48	32	81.29	30 50	14.36	20	32.91	37 28
14.26	43	97.79	13 47	15.54	13 0	69.51	27 09	15.24	44	13.26	24 24	12.13	47	83.20	38 11	14.12	22	33.16	31 40
14.89	51	98.86	12 03	14.62	25	72.67	24 39	11.61	46	13.51	23 15	13.92	15 3	85.21	34 07	16.32	24	33.40	35 19
14.68	17 2	0.30	17 41	15.35	35	73.92	25 59	15.24	19 6	16.09	28 22	14.12	12	86.38	30 42	15.85	27	33.85	32 45
14.68	6	0.72	12 37	14.95	40	74.51	21 56	15.85	7	16.13	25 42	12.71	32	88.90	30 43	14.16	31	34.26	33 19
14.89	11	1.39	10 10	11.95	46	75.34	21 40	14.02	7	16.14	29 40	14.16	34	89.15	32 36	15.98	34	34.66	36 50
15.79	23	2.97	12 43	15.24	46	75.38	28 12	16.13	18	17.50	26 26	16.32	38	89.66	39 08	14.26	36	34.92	36 39
16.32	27	3.48	12 26	16.32	47	75.43	29 31	16.32	29	18.97	25 45	13.92	16 12	93.97	37 29	15.24	45	36.12	30 56
15.18	41	5.20	14 38	15.24	14 2	77.42	25 54	14.89	31	19.26	24 43	14.42	15	94.25	33 20	15.79	11 22	57.43	44 12

25 prec. + 34 sec. — 5′ 27″.

Area 15.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′ / y−10′	Int. magn.	α	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.36	11 29	58.31	45 57	12.91	19 34	19.38	46 41	16.32	15 35	89.39	55 00	15.35	21 7	30.91	55 09	15.85	16 18	94.78	5 38
15.35	39	59.63	41 33	15.54	48	21.10	47 10	14.36	49	91.14	59 53	15.98	15	31.91	53 12	14.89	33	96.64	7 34
15.79	52	61.20	44 50	13.92	59	22.50	40 55	14.36	51	91.34	56 44	11.78	29	33.70	53 45	15.66	35	96.92	0 36
16.32	55	61.59	47 48	16.32	20 3	23.09	40 30	13.64	51	91.35	56 03	13.92	31	33.95	51 47	15.66	38	97.20	4 09
15.66	12 1	62.33	47 47	15.48	30	26.45	48 38	16.32?	53	91.55	52 12	14.62	31	33.99	52 15	15.24	54	99.28	9 14
15.06	3	62.61	46 03	15.35	36	27.21	42 39	13.88	16 7	93.31	55 48	14.26	38	34.78	59 44	13.04	57	99.58	6 58
15.66	10	63.42	48 41	15.60	42	27.94	49 52	14.36	10	93.69	58 51	15.54	11 22	57.80	7 42	15.85	58	99.69	7 56
15.85	11	63.59	48 10	14.42	44	28.24	49 09	15.66	16	94.51	55 39	14.36	37	59.72	7 01	13.92	17 3	0.33	6 00
15.12	19	64.61	49 40	13.64	52	29.18	48 46	15.79	20	95.04	55 37	15.18	45	60.72	8 54	15.24	5	0.63	0 41
15.54	26	65.46	41 15	16.13	56	29.77	42 41	12.51	31	96.32	58 20	15.06	46	60.82	8 18	16.32	13	1.68	5 45
15.35	38	66.94	46 04	15.35	21 12	31.71	43 09	15.35	33	96.62	50 47	16.32	12 3	62.96	3 09	16.32	16	2.03	9 20
9.53	56	69.29	47 55	15.18	17	32.36	48 23	9.55	34	96.74	52 58	15.06	6	63.35	6 19	15.54	21	2.67	7 14
16.32	13 1	69.87	44 22	13.46	18	32.56	49 42	15.48	35	96.88	57 30	14.68	6	63.38	4 10	14.78	34	4.20	2 58
13.42	9	70.95	44 07	16.13	34	34.54	49 26	14.68	36	97.05	53 01	15.85	37	67.19	0 17	15.18	34	4.22	0 58
13.78	10	70.97	48 33	14.26	11 29	58.47	56 55	15.54	37	97.07	56 03	15.06	39	67.44	3 29	14.68	38	4.77	3 03
15.24	18	71.99	48 06	11.61	29	58.52	59 26	14.42	38	97.21	53 10	12.32	40	67.52	4 03	15.06	39	4.90	0 42
16.32	36	74.36	44 04	14.78	33	59.06	57 20	11.12	39	97.38	50 40	15.06	50	68.77	5 12	15.48	43	5.38	6 37
15.24	48	75.85	41 08	9.35*	38	59.67	54 47	15.24	55	99.37	59 07	15.48	13 2	70.37	1 46	14.89	46	5.69	7 42
14.02	14 15	79.24	43 22	13.88	39	59.73	50 38	15.54	58	99.81	52 00	15.48?	6	70.83	9 58	16.32?	48	6.04	7 01
11.61	30	81.05	47 10	16.32	42	60.10	54 13	15.12	17 4	0.54	59 21	15.85	20	72.52	3 35	13.88	50	6.20	0 26
16.13	45	82.94	40 40	15.54	47	60.72	55 26	12.32	6	0.81	50 25	14.78	20	72.55	8 25	15.24	53	6.61	8 32
13.88	49	83.44	44 54	16.32	12 5	63.05	55 17	16.13	15	1.89	57 28	16.13	27	73.42	7 36	16.13	18 2	7.70	6 55
16.13	58	84.68	44 16	15.35	16	64.41	57 36	15.66	23	2.94	58 59	12.51	31	73.96	4 13	15.66	36	12.03	5 49
15.66	15 3	85.28	48 42	15.24	41	67.53	50 03	14.26	28	3.53	58 30	15.98	36	74.58	5 11	15.54	38	12.28	3 48
14.26	16 0	92.40	43 04	16.32	42	67.67	57 18	16.13	33	4.15	56 01	15.18	40	75.07	6 03	15.06?	53	14.14	5 18
13.25	11	93.86	48 23	14.36	47	68.26	51 23	15.24	34	4.24	58 49	15.85	42	75.38	9 56	15.18	57	14.58	5 43
14.16	13	94.09	42 20	14.42	59	69.83	53 57	14.68	36	4.49	51 26	16.32	44	75.50	2 01	14.78	59	14.88	3 41
15.85	20	94.99	47 04	13.46	13 26	73.15	55 10	15.98	41	5.14	54 22	14.26	48	76.11	6 29	14.26	19 7	15.78	7 59
15.18	57	99.67	44 53	15.54	30	73.68	56 01	15.92	18 15	9.45	59 34	14.16	58	77.37	8 47	10.82	9	16.08	2 37
15.35	58	99.72	44 28	16.32	37	74.61	51 24	15.66	22	10.23	57 39	16.32	14 2	77.76	6 44	16.32	13	16.57	4 09
12.91	17 1	0.09	43 16	13.20	38	74.63	51 40	15.85	31	11.41	57 00	12.32	7	78.44	1 04	15.66	15	16.88	3 26
16.32	9	1.13	44 07	12.13	41	75.04	52 04	15.48	35	11.92	55 30	14.36	13	79.18	2 09	15.48	15	16.88	4 49
12.51	15	1.89	49 23	16.32	47	75.83	56 49	12.13	35	11.95	56 26	9.78	16	79.49	8 17	12.51	16	16.97	1 34
16.32	24	3.06	48 19	12.13	55	76.84	55 34	15.24	43	12.92	54 39	15.98	22	80.27	2 00	15.24	16	16.98	9 02
16.32	31	3.96	41 59	14.89	57	77.10	59 50	14.89	55	14.42	50 00	14.89	40	82.57	2 37	16.32	17	17.14	4 34
16.32	37	4.69	45 43	15.79	14 14	79.22	56 59	15.18	19 8	16.08	51 56	14.95	42	82.79	6 11	13.78	30	18.66	4 19
14.78	38	4.74	42 34	14.26	14	79.22	59 33	15.18	17	17.13	55 44	15.66	42	82.79	2 33	15.48	42	20.21	8 03
13.88	53	6.70	48 21	15.54	15	79.32	52 17	14.26	20	17.54	50 14	15.12	15 0	84.99	0 04	12.43	45	20.62	0 22
14.26	18 17	9.75	44 11	15.12	26	80.69	59 22	14.89	21	17.70	54 22	15.06	11	86.42	0 44	13.04	48	20.91	2 11
14.95	19	9.97	44 56	14.68	27	80.81	53 38	13.92	23	17.93	57 53	13.92	18	87.26	8 19	15.24	57	22.13	4 01
15.98	28	11.09	49 25	15.24	40	82.46	54 07	16.32	39	19.94	58 06	15.24	27	88.41	4 47	14.89	20 14	24.24	7 57
14.12	42	12.79	48 02	13.33	40	82.51	59 14	15.85	41	20.20	58 20	15.06	32	89.06	2 05	12.13	20	24.94	0 56
16.32	19 3	15.53	42 47	14.89	45	83.12	54 40	14.62	20 8	23.56	55 13	15.98	32	89.08	8 31	12.59	26	25.70	0 23
15.85	4	15.58	43 32	12.51	54	84.23	56 13	15.79	9	23.68	50 17	13.78	36	89.56	4 09	15.48	34	26.71	3 39
13.78	10	16.36	43 46	13.12	15 5	85.61	57 35	16.13	15	24.47	58 05	15.54	39	89.86	3 22	10.89	35	26.86	0 55
12.91	14	16.90	48 36	10.97	18	87.20	50 49	15.48	19	24.96	57 07	13.55	40	90.05	7 04	15.35	40	27.41	0 40
15.18	15	16.95	41 30	11.78	25	88.09	58 24	15.48	26	25.88	50 59	15.35	44	90.53	3 35	15.54	42	27.67	7 07
15.54	19	17.46	44 10	15.73	31	88.86	59 34	15.98	27	25.97	54 52	15.35	53	91.66	6 53	16.32	43	27.75	9 08
13.12	23	18.01	41 43	11.95	32	88.99	52 17	15.54	28	26.00	57 50	15.85	16 0	92.52	7 14	16.31	44	27.90	8 48
14.73	26	18.44	49 26	16.32	35	89.33	51 06	15.79	31	26.41	54 03	14.84	8	93.53	9 49	15.06?	48	28.38	4 42

25 prec. + 33 sec. — 5′ 27″.

501—540				541—580				581—620				621—660				661—684			
Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y--10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.52	20 49	28.57	1 08	13.12	15 9	86.25	15 50	15.85	20 10	23.54	10 37	16.32	14 9	78.87	25 19	15.85	19 8	15.76	26 20
15.85	54	29.12	3 50	15.18	11	86.45	12 17	14.02	21	24.97	10 13	15.79	12	79.30	22 59	15.66	8	15.77	23 43
14.62	59	29.84	3 18	15.98	20	87.55	15 56	16.32	27	25.65	14 54	14.78	30	81.43	23 49	15.35	9	15.87	24 30
15.35	21 7	30.84	0 36	15.54?	16 19	94.94	17 24	15.66	29	25.90	11 27	9.0 :	30	81.50	28 01	15.54	15	16.61	28 43
16.32	9	31.03	6 40	15.66	28	95.97	11 23	13.51	34	26.57	19 19	15.24	32	81.68	21 18	14.89	18	17.00	28 14
14.52	22	32.73	9 45	14.52	30	96.29	17 10	11.78	42	27.50	12 39	16.32	42	82.96	20 46	15.18	24	17.76	26 05
12.13	48	35.94	8 31	14.62	37	97.12	11 54	15.79	53	28.93	11 44	13.33	43	83.10	23 53	13.69	27	18.20	21 00
13.64	51	36.33	1 12	15.54?	37	97.12	15 18	15.79	21 6	30.52	11 04	16.32	15 0	85.22	23 37	15.66	36	19.26	20 18
13.88	52	36.36	7 53	15.18	43	97.92	19 46	15.06	33	33.89	13 23	15.24	15	87.02	27 24	13.78	42	20.03	21 00
15.18	11 13	57.00	17 39	16.13?	49	98.69	14 56	14.68	35	34.10	17 32	14.62	29	88.78	24 15	16.32	20 5	22.78	28 12
15.06	21	57.96	13 08	14.95	17 1	0.10	19 02	10.02	52	36.28	16 21	16.32	33	89.25	20 53	16.32	13	23.81	20 23
9.57	30	59.07	19 30	12.32	2	0.20	17 19	15.66	54	36.49	19 50	14.26	50	91.32	23 58	12.51	14	23.89	21 37
13.12	37	59.94	15 24	15.18	12	1.55	10 48	14.62	56	36.67	14 30	16.32	54	91.92	27 33	16.13	14	23.91	20 05
16.32	40	60.26	14 57	14.62	17	2.10	18 37	15.06	11 14	57.34	26 33	12.51	55	91.95	24 51	15.48	16	24.14	28 51
14.12	52	61.83	13 23	11.28	29	3.60	13 14	14.02	20	58.06	24 30	12.91	16 19	94.94	28 35	14.78	26	25.44	27 35
14.02	53	61.93	10 27	15.24	32	3.97	15 30	11.28	33	59.64	21 21	15.35	21	95.23	22 02	15.24	27	25.53	25 01
14.89	58	62.58	11 43	15.54	49	6.11	18 14	13.64	48	61.45	21 43	14.68	28	96.11	24 07	14.95	33	26.29	29 17
15.35	59	62.63	13 11	14.26	18 0	7.48	18 05	15.35	54	62.29	26 53	15.54	30	96.33	24 35	16.32	44	27.58	22 20
15.18	59	62.63	18 13	15.24	0	7.48	16 01	15.35	12 20	65.38	21 26	12.91	44	98.01	21 02	15.79?	54	28.93	26 54
16.32	12 20	65.24	10 27	14.89	5	8.05	12 26	15.54	24	65.90	24 30	14.89	44	98.03	20 02	16.32	21 0	29.63	26 39
14.89	23	65.69	14 01	15.54	30	11.16	14 31	16.32?	25	66.10	21 21	14.95	54	99.31	23 16	16.13	6	30.32	26 48
15.06	30	66.51	15 50	13.25	35	11.82	19 48	11.78	27	66.33	24 58	11.95	59	99.92	29 15	15.48	12	31.15	28 29
16.13	31	66.66	15 55	14.62	39	12.28	15 13	16.32	34	67.16	29 41	14.89	17 4	0.56	24 10	15.79	33	33.70	24 00
15.24	40	67.77	13 09	13.78	40	12.44	17 53	15.18	34	67.18	23 35	13.78	5	0.60	22 27	15.24	52	35.97	26 35
14.42	51	69.11	16 33	15.18	55	14.31	15 37	14.95	35	67.33	26 20	16.13	15	1.81	20 16				
12.71	58	70.01	18 54	15.35	59	14.76	13 22	14.89	57	69.98	27 13	13.55	20	2.46	28 06				
14.57	13 6	70.97	19 44	15.06	19 0	14.91	17 40	15.98	13 2	70.59	25 09	15.48	21	2.62	23 53				
14.26	13	71.80	17 28	15.85	6	15.66	16 14	15.35	4	70.92	20 40	16.32	35	4.35	22 17				
16.32	19	72.61	18 09	14.16	11	16.26	11 28	15.98	5	71.00	20 26	15.66	39	4.86	27 44				
15.54	44	75.69	18 53	14.52	12	16.40	11 15	15.18	8	71.42	20 40	14.78	42	5.17	21 27				
16.04	56	77.17	19 44	14.26	13	16.55	13 00	15.79	12	71.85	22 04	15.18	59	7.30	21 01				
12.13	59	77.58	14 31	14.12	18	17.08	12 19	15.54	17	72.49	27 26	14.36	18 2	7.69	27 41				
14.78	14 8	78.64	10 38	15.06	24	17.89	13 24	15.85	20	72.86	29 43	16.32	3	7.75	27 13				
14.95	14	79.40	17 27	15.06	35	19.28	11 28	12.71	20	72.91	26 46	11.44	10	8.59	29 08				
15.18	27	80.97	10 34	15.79	41	19.92	18 34	15.79	28	73.80	21 37	16.13	34	11.64	23 29				
15.54	38	82.39	15 37	15.54	44	20.29	13 00	14.12	35	74.75	21 35	15.48	35	11.67	25 12				
11.78	42	82.93	11 59	12.71	50	21.07	10 27	15.66	49	76.39	25 56	15.85?	44	12.89	24 55				
14.78	46	83.43	19 54	14.68	55	21.71	10 02	14.78	50	76.57	20 24	14.68	47	13.19	23 58				
10.74	49	83.77	11 16	15.54?	20 6	23.10	11 37	15.18	56	77.28	22 51	14.26	55	14.17	20 26				
15.24	15 8	86.12	11 25	15.35	8	23.33	14 38	15.18	59	77.62	29 32	15.35	19 7	15.73	23 20				

25 prec. + 32 sec. — 5′ 27″.

Area 16. Centre for 1900: 17h 29m + 59° 50′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$ / $y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.25	24 51	68.37	23 53	14.90	25 6	70.41	35 13	15.38	31 9	16.29	35 47	12.73	29 39	4.92	44 32	14.57	28 17	94.60	58 14
15.04	53	68.61	27 36	15.38	18	71.95	39 09	14.48	10	16.45	35 41	12.03	44	5.60	44 41	14.03	24	95.55	54 24
12.03	58	69.16	24 05	13.10	30	73.48	31 01	11.86	11	16.59	38 05	13.69	54	6.85	42 53	13.10	26	95.70	52 03
15.38	25 18	71.81	22 17	15.19	34	73.94	30 04	15.38	13	16.85	38 49	15.04	57	7.22	40 22	14.66	28	95.99	59 22
15.19	45	75.22	26 14	14.57	41	74.84	31 31	15.19	23	18.04	34 20	13.90	30 12	9.10	47 24	14.66	57	99.67	55 56
15.38	47	75.43	20 57	14.43	42	74.88	32 26	14.90	25	18.38	37 59	14.80	15	9.39	40 04	14.66	29 6	0.75	50 32
13.41	26 12	78.56	29 02	14.48	49	75.79	36 59	12.66	35	19.57	31 34	14.95	30	11.31	47 44	15.38	8	0.99	52 23
11.86	13	78.75	28 34	12.37	53	76.36	38 14	14.30	47	21.08	30 30	14.57	32	11.58	48 36	15.19	16	2.04	54 11
14.57	17	79.25	28 58	10.38	53	76.36	38 38	13.37	51	21.70	36 33	13.69	42	12.91	46 36	13.69	22	2.76	58 33
13.49	57	84.38	25 01	13.07	56	76.71	30 02	12.66	32 1	22.97	31 19	13.18	52	14.11	40 24	14.43	32	3.98	53 17
15.04	58	84.43	26 40	14.48	26 9	78.30	32 03	13.03	3	23.14	38 08	14.57?	52	14.16	46 27	11.38	50	6.30	58 11
15.19	27 6	85.51	28 24	13.10	13	78.86	35 59	11.22	4	23.30	34 55	14.48	58	14.88	48 15	14.71	52	6.58	55 10
14.12	19	87.14	21 06	11.54	28	80.76	35 56	15.04	9	23.92	39 51	14.80	31 0	15.09	43 32	14.95	30 0	7.52	52 14
13.18	19	87.16	26 02	13.29	29	80.91	37 57	15.38	19	25.22	32 19	13.29	40	20.20	45 26	14.21	9	8.59	54 56
14.03	29	88.47	29 27	12.55	35	81.59	39 16	15.38	27	26.21	33 43	13.99	55	21.98	43 59	12.37	17	9.70	53 27
14.71	32	88.83	26 32	11.70	44	82.74	37 43	14.12	33	26.99	30 34	13.07	32 12	24.14	49 40	10.22	18	9.78	59 55
11.86	38	89.53	22 34	14.12	46	83.10	39 30	14.03	25 12	71.29	46 01	14.90	25	25.87	46 34	15.19	25	10.64	59 25
13.99	41	89.99	26 41	14.34	51	83.64	36 00	15.04	13	71.39	41 01	10.36	29	26.30	48 43	11.22	36	11.98	52 22
15.38	46	90.52	21 14	12.73	58	84.60	36 46	12.37	20	72.34	43 17	15.38	38	27.41	42 56	14.21	45	13.13	55 58
13.57	28 32	96.38	25 33	14.85	27 17	86.91	30 06	11.06	28	73.26	44 00	14.34	41	27.87	48 11	11.22	45	13.17	51 55
12.03	33	96.53	25 01	12.03	21	87.47	30 20	14.57	30	73.57	45 46	14.34	42	27.90	40 11	14.34	31 4	15.59	58 44
11.93	48	98.46	29 59	14.71	29	88.43	37 34	15.38	46	75.59	40 05	15.38	24 49	68.56	57 31	15.38	7	15.88	58 36
14.57	56	99.55	21 42	11.38	32	89.93	31 36	12.20	26 10	78.66	46 19	13.10	57	69.51	53 25	14.03	8	15.99	55 06
13.10	29 9	1.10	28 17	10.64	47	90.76	31 01	11.60	11	78.67	49 45	13.69	57	69.51	54 16	11.22	19	17.37	51 42
11.86	19	2.40	20 42	15.38	48	90.84	38 27	13.69	17	79.49	48 18	15.38	25 5	70.51	50 13	14.43	21	17.72	57 20
12.99	22	2.82	29 05	14.03	28 1	92.53	31 03	11.70	41	82.54	41 24	14.80	18	72.23	54 18	13.69	22	17.84	53 31
15.04	39	4.96	21 26	12.03	2	92.61	32 13	10.74	42	82.66	41 38	9.15	21	72.50	50 03	14.80	27	18.39	55 31
14.12	55	7.04	20 56	13.78	11	93.76	32 01	15.38	51	83.80	48 05	13.14	27	73.29	59 58	13.18	33	19.15	58 43
11.54	59	7.51	23 18	14.90	11	93.81	33 03	15.38	55	84.24	41 48	10.43	42	75.25	59 23	13.69	36	19.61	52 18
12.37	30 21	10.25	22 54	14.95	14	94.21	33 22	14.48	27 10	86.13	48 05	14.71	47	75.79	55 22	9.45	41	20.18	53 46
14.43	26	10.89	26 26	14.95	17	94.58	33 27	14.57	30	88.62	41 39	15.38	50	76.22	53 25	10.74	43	20.44	52 12
10.35	35	12.08	29 20	14.71	22	95.17	37 30	15.38	31	88.82	44 46	13.61	56	76.90	52 37	14.34	43	20.46	53 16
12.85	42	12.97	25 56	12.62	25	95.57	30 22	14.90	33	89.04	41 15	10.52	26 2	77.70	52 05	14.57	48	21.02	57 25
13.99	58	14.98	23 12	14.57	27	95.82	32 39	14.85	59	92.28	49 45	10.67	4	77.92	59 57	11.22	50	21.25	55 51
13.90	31 9	16.37	22 09	14.57	53	99.13	30 52	13.25	28 6	93.23	49 50	14.66	26	80.72	59 19	15.38	52	21.53	50 45
15.04	22	18.02	22 48	15.38	29 10	1.33	31 44	15.04	9	93.60	45 37	14.57	31	81.31	55 03	14.34	57	22.19	55 40
12.55	23	18.23	23 22	15.38	14	1.71	32 58	15.38	15	94.30	41 55	14.90	47	83.35	58 49	14.34	32 5	23.18	57 49
10.38	24	18.36	28 07	13.78	25	3.13	31 25	11.86	16	94.52	48 00	13.61	47	83.38	53 15	14.48	27	25.91	57 34
12.37	44	20.83	24 20	12.20	25	3.21	36 33	15.38	24	95.43	44 33	14.43	51	83.78	52 41	15.38	28	26.11	57 41
15.04	51	21.76	25 44	12.20	26	3.30	35 17	14.57	32	96.48	43 10	14.71	56	84.48	53 08	13.37	41	27.68	58 15
15.38	52	21.86	20 04	14.43	31	3.92	36 18	10.74	40	97.53	40 57	12.37	27 4	85.44	53 13	14.71?	24 45	68.25	6 53
15.38	57	22.47	21 27	15.38	57	7.18	38 29	8.69*	41	97.57	45 50	12.20	9	86.06	53 52	12.03	25 10	71.34	7 25
14.57	32 1	23.07	24 44	15.38	30 14	9.31	37 08	13.90	43	97.89	46 43	14.90	12	86.47	56 24	15.38	12	71.55	5 06
14.57	15	24.82	28 35	15.38	22	10.42	33 39	13.03	44	98.01	44 52	15.04	20	87.43	54 06	12.55	18	72.28	3 53
15.04	17	25.11	22 23	15.19	34	11.93	36 26	15.38	29 5	0.65	43 55	14.25	25	88.04	56 57	14.90	34	74.28	0 45
14.71	36	27.48	27 36	14.80	36	12.18	32 21	13.90	12	1.54	47 57	11.86	32	89.00	58 40	14.71	35	74.40	7 18
14.80	38	27.74	20 27	10.90	44	13.23	34 45	13.69	17	2.16	41 24	12.66	34	89.20	51 44	13.82	43	75.46	1 25
12.13	24 50	68.29	30 28	15.38	47	13.56	35 52	12.37	19	2.36	43 00	10.36	55	91.84	59 57	12.92	56	77.07	8 51
12.03	54	68.89	37 18	14.25	53	14.26	31 15	14.90	35	4.39	46 09	12.73	59	92.32	51 23	15.19	26 4	78.10	8 18
13.29	58	69.41	36 56	13.99	53	14.29	36 49	15.38	37	4.64	45 04	9.26*	59	92.33	55 19	14.57	12	79.12	6 17

25 prec. + 20 sec. — 1′ 8″.

17^h **Area 16.** + 60°

251—280				281—310				311—340				341—364			
Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.71	26 14	79.34	8 01	15.38	32 8	23.46	1 00	14.71	27 32	89.06	16 13	14.57	30 37	11.98	15 41
14.71	19	79.97	8 51	13.69	9	23.54	1 15	15.38	32	89.13	12 34	11.86	42	12.63	19 55
14.71	29	81.13	2 13	13.41	12	23.94	2 44	14.66	46	90.86	19 52	13.29	48	13.43	17 30
14.48	32	81.48	9 44	14.71	20	24.89	7 50	14.25	48	91.07	11 20	14.34	57	14.52	15 58
14.95	33	81.65	9 22	15.19	22	25.18	7 54	13.69	56	91.99	18 38	15.38	31 4	15.34	14 06
13.90	59	84.97	2 42	15.04	36	26.91	2 40	14.57	56	92.05	17 40	14.21	6	15.63	19 21
15.19	27 6	85.77	0 32	13.69	38	27.16	7 38	13.69	57	92.15	17 19	14.12	29	18.54	19 57
14.57?	29	88.63	1 26	14.66	24 48	68.71	14 37	12.37	28 1	92.66	11 49	14.03	30	18.58	10 44
14.71	34	89.27	7 28	13.10	57	69.80	11 43	14.43	3	92.87	18 06	14.80	31	18.68	10 20
13.29	48	91.09	0 29	14.90	25 12	71.74	17 27	14.21	11	93.93	18 09	11.86	36	19.38	12 29
12.92	28 6	93.27	0 17	14.25	21	72.88	16 42	14.71	12	94.04	12 30	12.03	39	19.73	13 09
15.38	6	93.30	5 54	12.73	28	73.72	11 59	14.34	13	94.21	11 00	10.01	40	19.86	12 40
12.37	46	98.24	0 19	14.25	32	74.18	13 22	14.66	18	94.83	15 36	13.90	46	20.64	13 50
13.61	46	98.31	6 52	11.38	54	76.92	15 50	14.95	29	96.11	16 06	15.38	54	21.65	13 20
13.82	29 0	99.94	8 32	14.03	55	77.00	14 32	14.80	33	96.65	17 10	14.43	56	21.82	17 03
13.82	2	0.22	8 22	12.37	59	77.55	14 52	14.66?	29 6	0.76	17 07	12.37	57	21.93	14 17
13.37	6	0.79	2 53	15.38	26 5	78.31	14 03	15.38	21	2.61	17 48	13.57	58	22.09	19 02
13.90	40	5.02	3 45	14.71	5	78.33	15 02	14.12	26	3.23	12 24	14.48	32 1	22.45	12 00
10.90	49	6.14	8 15	13.90	10	78.91	16 25	13.82	26	3.26	15 03	13.99	7	23.23	12 33
15.38	30 27	10.84	5 56	14.66	19	80.07	17 16	14.48	34	4.23	13 20	15.04	8	23.31	18 31
14.90	29	11.11	0 24	14.71	29	81.28	11 23	14.34	38	4.76	10 31	14.80	16	24.33	17 19
12.99	32	11.46	0 47	13.57	39	82.54	16 23	15.38	43	5.29	13 13	14.80	24	25.24	10 44
12.20	39	12.36	8 54	13.90	41	82.81	14 49	14.57	46	5.67	10 38	13.82	26	25.57	13 03
14.12	31 0	15.02	5 09	14.66	51	83.98	13 00	14.66	50	6.17	14 50	14.66	35	26.67	19 59
14.90	2	15.17	2 30	14.80	53	84.25	16 31	15.19	54	6.67	15 18				
15.19	11	16.39	7 50	13.99	56	84.56	13 11	14.43	57	7.12	16 17				
14.03	19	17.34	1 50	13.61	27 21	87.75	15 42	11.54	30 11	8.82	12 55				
14.66	20	17.52	7 31	13.90	24	88.15	14 31	11.86	14	9.19	16 13				
14.66	36	19.47	6 18	13.10	25	88.25	17 42	15.38	24	10.41	18 31				
14.03	59	22.27	7 36	12.73	29	88.72	18 40	15.38	34	11.67	18 48				

25 prec. + 19 sec. — 1′ 8″.

19^h **Area 17. Centre for 1900: 19^h 23^m + 60° 10′.** + 59°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.39	20 5	78.01	52 05	14.80	20 36	81.96	58 15	13.66	20 58	84.71	51 17	14.00	21 19	87.29	58 43	14.00	21 43	90.36	58 44
15.28	7	78.26	51 55	15.47	36	81.97	52 00	10.02	21 9	86.11	57 15	14.39	19	87.32	54 51	13.23	44	90.44	52 34
14.14	27	80.82	50 00	13.70	39	82.32	51 40	14.39	9	86.12	51 56	13.87	20	87.44	59 11	14.62	50	91.29	53 39
14.68	29	81.08	52 58	11.32	39	82.37	51 21	14.14	11	86.36	52 27	15.13	22	87.77	55 08	13.49	54	91.76	50 40
14.62	29	81.11	59 02	9.54	43	82.88	56 12	15.47	15	86.85	55 21	13.57	22	87.78	52 46	15.28	58	92.28	56 49
14.14	30	81.21	54 46	10.55	47	83.30	57 36	14.62	17	87.04	54 06	13.66	23	87.85	55 56	12.30	22 0	92.54	52 40
13.87	30	81.25	50 38	15.28	50	83.77	59 23	14.80	18	87.16	53 06	15.47	29	88.62	58 50	14.80	7	93.38	50 31
11.82	35	81.85	51 34	14.34	53	84.07	54 35	14.62	18	87.17	56 29	15.13	33	89.11	58 58	14.23	10	93.68	56 48
15.00	36	81.89	53 28	9.80	54	84.21	55 18	14.68	18	87.20	50 18	14.80	34	89.16	57 29	14.34	10	93.72	50 56
14.80	36	81.92	52 05	12.37	58	84.70	53 09	13.78	18	87.20	56 06	14.68	36	89.49	55 54	13.87	14	94.29	53 16

25 prec. + 23 sec. + 2′ 54″.

Area 17.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	a	x	y+70′	Int. magn.	a	x	y+70′ / y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.80	22 16	94.42	50 50	15.13	24 32	11.54	53 05	14.34	21 29	88.64	7 13	14.80	24 14	9.27	7 46	13.28	21 54	91.84	15 43
14.68	16	94.42	59 23	14.50	34	11.80	57 38	14.68	35	89.40	4 24	12.18	23	10.39	3 51	15.47	58	92.37	11 24
15.47	18	94.73	52 06	15.47	34	11.82	59 13	13.57	36	89.46	6 52	14.62	28	10.92	2 25	14.14	22 1	92.72	16 41
14.39	24	95.45	55 58	14.09	38	12.23	54 04	10.23	37	89.68	3 52	14.50	34	11.75	7 25	14.68	4	93.08	18 15
13.70	27	95.81	52 45	14.09	39	12.42	56 05	13.66	39	89.93	0 23	14.34	37	12.04	8 11	14.14	13	94.12	11 25
14.68	28	95.95	52 23	12.56	40	12.51	57 52	15.47	40	89.98	9 13	14.93	39	12.38	7 13	12.18	13	94.18	18 27
14.93	34	96.71	57 51	14.62	45	13.10	57 43	14.00	44	90.48	3 20	15.47	43	12.80	2 23	14.50	13	94.21	12 20
15.47	37	97.07	54 00	14.68	45	13.11	51 24	15.47	53	91.70	3 38	14.00	46	13.24	6 58	14.05	20	95.08	19 54
13.87	40	97.48	58 16	14.34	46	13.28	57 24	14.14	55	91.95	2 24	14.23	49	13.62	9 31	14.39	23	95.40	15 42
13.15	43	97.86	55 18	14.00	47	13.39	54 06	14.62	58	92.25	1 50	14.34	50	13.66	9 13	14.93	24	95.51	12 03
15.47	44	97.97	58 22	14.68	48	13.53	52 03	13.23	59	92.37	7 55	13.23	52	13.90	3 53	15.00	25	95.67	18 05
15.47	48	98.47	57 13	14.14	48	13.55	58 40	15.13	22 14	94.20	7 01	13.57	57	14.54	6 31	15.13	26	95.73	16 55
12.67	48	98.55	54 30	13.57	49	13.61	58 55	14.34?	19	94.88	6 13	13.28	57	14.57	2 34	15.47	38	97.27	15 48
14.80	49	98.63	57 34	14.80?	49	13.69	56 21	14.50	23	95.43	7 43	14.45	59	14.81	0 34	14.80	50	98.78	10 46
14.34	50	98.77	57 59	12.87	49	13.71	51 03	14.68	25	95.62	2 16	14.09	25 0	14.97	0 48	15.00	50	98.79	14 43
14.39	58	99.73	51 12	14.00	50	13.72	50 24	15.00	27	95.93	2 48	13.78	1	15.11	1 58	14.09	50	98.82	17 17
12.48	58	99.74	56 31	15.28	53	14.15	57 14	14.62	28	96.01	5 26	13.91	1	15.13	5 52	15.28	52	98.95	17 30
13.70	23 1	0.13	54 30	14.23	55	14.40	52 14	14.68	29	96.11	3 28	14.68	3	15.39	8 32	13.66	59	99.92	18 03
14.93	3	0.33	50 25	14.80	57	14.71	59 04	14.50	31	96.44	9 17	13.78	6	15.71	4 32	14.50	23 2	0.23	11 29
14.93	5	0.66	50 07	14.62	58	14.73	55 47	14.56	33	96.59	0 16	14.50	15	16.82	7 48	14.68	17	2.15	19 05
14.14	7	0.85	59 48	14.09	58	14.83	55 05	11.16	39	97.37	8 02	13.87	16	16.93	3 28	12.37	36	4.45	18 16
14.50	9	1.17	55 45	14.62	59	14.94	57 53	12.45	40	97.44	0 18	14.68	16	16.95	0 33	12.37	37	4.56	18 53
14.34	10	1.22	55 06	11.65	25 2	15.31	59 03	14.09	41	97.61	0 14	14.68	24	17.92	1 34	11.01	38	4.75	11 48
14.80	11	1.35	59 17	13.23	11	16.41	50 10	8.44*	41	97.66	9 01	13.36	24	17.99	5 55	14.39	40	4.94	18 10
15.47	14	1.82	56 56	14.68	16	17.00	51 46	15.47	43	97.89	0 56	13.66	20 3	78.04	19 46	15.47	46	5.71	14 55
14.93	16	1.99	59 34	12.95	16	17.03	55 20	12.00	48	98.53	9 44	15.47	6	78.43	19 12	14.39	48	5.89	19 52
11.48	23	2.88	56 52	14.09	17	17.17	51 58	13.28	48	98.54	8 27	15.00	6	78.43	17 33	14.80	51	6.34	16 27
14.62	26	3.25	53 06	13.78	19	17.41	51 17	13.91	52	98.96	6 15	13.03	6	78.48	16 54	15.47	54	6.67	11 59
15.47	37	4.68	56 03	13.70	20	17.55	58 53	13.23	56	99.53	3 35	14.68	8	78.73	10 56	15.47	55	6.80	11 42
14.50	39	4.91	54 46	12.37	20	17.60	52 00	10.57	58	99.71	7 47	12.87	20	80.20	19 16	15.28	58	7.17	15 11
15.47	48	6.06	55 32	15.47	20 11	78.97	1 55	13.44	58	99.77	1 15	15.47	25	80.78	17 08	14.00	58	7.21	15 23
13.78	50	6.30	52 15	13.49	19	79.88	7 29	10.37	59	99.87	2 10	15.00	29	81.22	18 47	15.47	24 4	7.95	11 49
15.13	50	6.31	55 05	12.83	21	80.19	1 43	12.48	23 7	0.91	1 18	14.00	31	81.56	13 12	15.28	5	8.02	14 42
14.62	52	6.56	54 15	14.34	27	80.90	1 56	15.47	10	1.27	9 44	11.32	38	82.42	11 19	14.00	8	8.38	11 34
15.47	54	6.83	55 08	14.50	32	81.52	6 52	14.14	12	1.55	5 57	13.36	40	82.67	17 17	14.14	10	8.67	10 51
15.28	56	7.04	50 36	14.93	35	81.89	2 35	14.39	18	2.24	9 11	14.39	43	82.98	18 02	15.47	10	8.71	16 00
14.39?	58	7.23	57 25	15.47	35	81.91	3 04	15.47	24	2.97	8 56	14.23	46	83.35	15 15	13.66	14	9.12	12 02
12.83	24 1	7.64	59 36	11.72	39	82.42	0 22	14.68	32	3.95	3 56	15.28	46	83.36	17 25	14.34	16	9.39	16 44
15.47	2	7.73	52 23	15.28	46	83.24	4 24	14.39	35	4.42	1 29	9.96	21 1	85.19	19 31	14.62	19	9.78	16 57
15.47	3	7.80	53 26	15.28	47	83.40	6 05	14.39	37	4.67	2 25	15.47	3	85.49	18 08	14.80	30	11.15	17 57
11.65	5	8.10	58 36	14.23	50	83.76	6 11	14.50	38	4.75	1 35	14.62	7	86.02	18 29	14.80	32	11.42	12 30
15.28	5	8.15	59 45	14.62	50	83.85	2 02	14.39	43	5.41	1 25	12.00	8	86.15	12 32	12.00	36	11.89	18 45
15.28	10	8.72	52 18	14.34	52	84.07	6 04	14.39	44	5.54	5 24	15.47	16	87.11	19 27	11.58	38	12.12	10 10
12.00	10	8.73	53 52	11.16	58	84.84	0 29	11.01	44	5.54	4 29	11.82	21	87.73	15 09	15.47	38	12.22	15 51
15.00	11	8.91	59 09	13.49	21 0	84.98	4 44	14.00	56	6.94	6 51	14.50	29	88.73	18 00	13.03	42	12.62	16 15
15.47	12	8.99	58 45	14.68	2	85.32	8 23	15.28	56	6.99	3 28	15.47	31	89.00	14 34	10.25	42	12.66	15 15
13.28	20	10.07	54 26	14.00	16	87.10	1 43	15.47	57	7.06	0 22	14.68	33	89.26	17 48	15.47	44	12.85	18 30
14.80	23	10.39	53 40	14.34	22	87.72	4 30	14.23	57	7.14	9 21	14.14	35	89.50	14 31	14.39	48	13.39	17 00
14.93	28	11.02	59 23	13.66	22	87.78	2 23	14.62	24 12	8.93	2 45	13.78	50	91.28	16 43	13.91	50	13.61	18 39
9.99	30	11.21	58 02	14.62	27	88.39	3 54	15.13	13	9.07	1 32	15.47	52	91.58	19 44	14.39	57	14.47	17 20

25 prec. + 22 sec. + 2′ 58″.

Area 17.

301—330				331—360				361—390				391—413			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.03	24 57	14.53	16 14	13.78	21 2	85.45	29 42	15.28	22 46	98.27	26 43	14.62	24 30	11.09	21 19
13.96	57	14.57	10 20	14.80	2	85.49	24 44	14.39	48	98.47	29 28	13.87	36	11.90	27 59
15.47	25 9	16.00	16 29	15.47	4	85.62	25 24	15.13	59	99.83	24 57	14.39	38	12.04	22 05
13.66	18	17.10	15 17	14.39	11	86.50	21 44	14.23	23 3	0.40	27 46	11.72	39	12.19	20 26
12.67	19	17.19	13 21	15.13	11	86.51	24 01	12.67	8	0.95	28 23	14.62	40	12.39	29 00
15.13	19	17.30	10 42	14.93	11	86.60	24 33	15.47	11	1.32	22 05	13.03	44	12.82	20 34
14.68	20	17.41	15 45	10.85	12	86.70	21 30	12.95	13	1.62	25 14	12.87	46	13.02	22 07
13.87	24	17.85	13 33	15.47	13	86.85	24 01	14.45	20	2.46	20 24	15.13	46	13.10	24 31
11.01	25	18.00	11 39	14.14	16	87.19	26 17	13.49	22	2.75	21 15	14.39	53	13.95	26 15
15.13	20 11	79.17	29 36	14.62	16	87.23	27 49	15.47?	28	3.40	22 45	13.70	54	14.03	28 30
14.68	12	79.31	27 27	14.09	18	87.40	27 39	15.47	31	3.80	24 29	15.47	55	14.21	27 10
15.47	18	80.02	29 04	14.39	18	87.40	25 20	14.50	35	4.36	22 06	13.66	57	14.41	25 12
15.47	22	80.47	22 08	14.80	20	87.68	28 23	14.80	38	4.71	27 48	15.00	59	14.73	20 31
15.00	33	81.85	21 53	14.50	22	87.91	26 37	15.28	44	5.37	20 31	15.47	25 2	15.04	23 36
15.47	34	81.96	28 26	14.14	29	88.75	25 00	13.49	46	5.62	25 21	14.93	3	15.17	23 12
15.28	37	82.34	21 51	15.47	37	89.70	29 53	13.28	46	5.72	27 27	15.47	5	15.38	29 34
14.09	38	82.41	28 03	14.00	38	89.86	27 45	14.62	48	5.95	21 41	14.68	7	15.68	28 44
14.68	38	82.52	26 31	14.50	44	90.60	23 36	11.32	48	5.99	20 08	15.47	11	16.16	23 59
11.48	41	82.82	23 47	15.47	47	90.98	29 32	11.48	49	6.01	27 44	14.80	12	16.23	23 20
14.62	42	82.92	22 07	12.99	22 5	93.22	20 18	14.50	52	6.42	23 50	15.47	13	16.40	20 41
14.68	44	83.22	21 23	15.13	14	94.30	24 09	13.57	55	6.74	25 28	14.50	14	16.60	21 00
15.47	45	83.31	28 27	15.47	18	94.88	20 38	14.62	55	6.84	20 22	10.47	17	16.95	29 03
13.36	46	83.50	28 36	15.47	19	94.92	20 26	14.34	58	7.14	29 52	12.00	21	17.37	22 43
13.57	49	83.81	29 35	14.14	22	95.29	20 50	14.34	24 0	7.45	22 11				
14.68	50	83.92	22 24	14.34	26	95.82	23 33	15.47	3	7.83	24 32				
13.28	51	84.05	23 43	12.75	28	96.03	21 39	15.47	5	7.97	28 06				
15.28	54	84.48	25 50	14.62	31	96.41	28 50	15.13	7	8.23	29 58				
15.47	58	85.01	22 15	14.93	38	97.28	27 04	14.09	15	9.23	29 08				
10.41	59	85.10	24 46	14.68	38	97.33	23 11	15.13	16	9.41	27 24				
15.00	21 1	85.31	22 02	15.47	39	97.43	23 21	14.50	24	10.33	20 42				

25 prec. + 22 sec. + 2′ 58″.

21h

Area 18. Centre for 1900: 21h 24m + 60° 10′.

+ 59°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.77	21 46	83.15	51 19	16.80	21 52	83.92	50 13	13.94	22 1	85.10	59 33	14.54	22 8	86.02	53 12	13.87	22 27	88.37	53 16
15.54	47	83.32	51 59	16.61	53	84.09	52 39	12.75	2	85.23	57 28	16.34	9	86.11	51 39	16.80	28	88.44	57 50
16.80	47	83.33	58 27	15.91	55	84.26	59 44	16.80	3	85.31	55 11	14.82	9	86.11	50 42	11.78	29	88.62	57 01
16.80	48	83.42	52 44	15.15	55	84.28	53 28	12.01	4	85.51	52 03	16.80	10	86.19	54 21	12.01	30	88.69	52 05
16.80	48	83.48	55 12	15.32	56	84.45	56 09	16.46	5	85.60	55 37	15.23	17	87.10	57 09	16.80	32	88.96	59 44
16.34	49	83.54	55 55	15.02	56	84.47	51 48	16.80	5	85.63	56 02	16.80	19	87.34	56 26	16.80	32	89.03	50 32
15.68	49	83.59	51 24	14.90	57	84.56	53 31	12.38	5	85.64	59 16	14.43	20	87.42	57 01	16.28	34	89.27	59 13
16.06	50	83.77	52 28	13.87	58	84.67	54 53	15.63	6	85.69	59 31	16.80	20	87.52	53 20	16.34	35	89.36	51 31
16.16	51	83.79	50 30	14.94	58	84.73	59 22	16.80	6	85.74	55 01	16.16	23	87.87	57 18	16.01	36	89.50	50 59
16.01	51	83.85	52 46	15.77	22 1	85.07	52 21	16.80	8	86.01	51 22	9.82	26	88.21	51 39	11.81	37	89.63	59 51

25 prec. + 40 sec. + 6′ 27″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.68	22 38	89.72	51 37	16.01	23 24	95.47	58 00	16.61	24 13	1.68	58 32	16.06	24 46	5.78	58 44	15.77	25 26	10.75	57 18
13.87	39	89.81	52 20	16.06	25	95.62	58 18	15.45	13	1.68	57 08	15.36	47	5.89	52 56	15.68	27	10.85	51 32
12.93	39	89.85	59 24	16.06	26	95.74	57 01	13.87	14	1.79	54 28	15.36	48	6.08	51 21	14.05	27	10.88	59 13
16.80	40	89.91	55 49	15.91	26	95.74	51 01	10.06	15	1.83	53 40	15.91	48	6.08	55 41	15.91	27	10.93	51 50
13.87	41	90.12	55 41	13.50	26	95.80	52 04	16.80	15	1.90	51 03	15.45	48	6.08	56 18	14.90	29	11.15	52 45
16.28	43	90.35	56 44	14.05	27	95.91	52 54	15.02	16	2.04	57 27	12.19	49	6.15	54 45	16.61	30	11.24	59 51
16.06	44	90.49	50 07	13.98	28	95.95	50 41	16.80	17	2.15	51 32	16.61	52	6.53	58 07	16.06	30	11.28	51 38
16.80	46	90.75	50 24	16.61	32	96.43	51 09	16.61	18	2.29	51 57	16.46	53	6.65	55 36	16.06	30	11.33	55 12
15.28	47	90.82	59 48	16.06	32	96.46	59 20	14.82	18	2.29	50 50	16.34	55	6.84	56 34	13.31	31	11.40	50 19
10.98	49	91.05	54 21	16.80	32	96.50	53 02	16.80	18	2.31	56 47	16.80	55	6.87	51 23	16.80	31	11.41	54 21
14.43	50	91.28	55 48	16.28	34	96.70	53 37	16.80	22	2.80	53 43	16.80	58	7.22	57 06	16.80	32	11.53	52 18
16.28	52	91.45	59 10	12.82	36	97.03	59 46	15.45	23	2.86	50 49	14.51	58	7.28	52 55	16.80	32	11.57	51 40
16.80	53	91.65	55 58	16.80	37	97.12	50 40	16.34	24	2.96	54 55	14.70	58	7.28	53 03	16.80	32	11.58	50 20
16.06	54	91.69	59 40	16.28	37	97.13	51 36	16.80	24	2.96	52 39	16.80	59	7.35	55 17	15.45	33	11.63	58 30
16.80	54	91.79	53 25	14.82	38	97.20	53 25	15.45	24	2.99	58 50	15.59	59	7.35	54 34	13.12	34	11.78	53 33
14.17	55	91.84	57 27	15.59	39	97.36	52 29	16.61	24	3.06	54 07	14.05	25 0	7.45	54 53	16.80	36	12.06	59 20
16.80	56	92.04	57 43	14.05	39	97.41	52 09	16.34	25	3.09	52 21	13.94	0	7.46	59 41	16.80	36	12.07	58 41
16.80	57	92.09	50 06	14.70	40	97.55	53 32	15.45	25	3.11	51 14	16.28	0	7.58	57 28	13.87	36	12.09	54 16
16.80	57	92.11	58 24	13.98	41	97.59	58 26	15.45	25	3.18	50 03	15.82	1	7.63	59 55	15.82	37	12.16	55 56
16.16	57	92.13	56 47	15.36	41	97.65	55 42	16.80	26	3.30	52 29	14.94	1	7.67	50 01	16.80	38	12.26	58 14
16.01	58	92.28	58 59	14.70	43	97.81	50 02	11.39	27	3.34	54 04	14.05	2	7.82	53 48	15.68	38	12.31	57 05
16.80	59	92.33	50 30	16.80	43	97.86	59 46	14.62	29	3.69	52 06	11.60	4	7.99	51 47	14.90	40	12.50	58 52
16.80	59	92.35	50 09	16.80	43	97.92	59 20	15.32	30	3.71	55 53	16.80	4	8.03	56 38	16.80	40	12.56	53 39
15.91	23 0	92.42	55 38	14.62	44	97.93	50 13	13.87	31	3.89	57 03	16.80	6	8.20	50 11	16.80	40	12.58	51 09
16.80	0	92.47	59 54	16.80	45	98.12	50 51	14.24	32	4.02	52 36	16.80	6	8.27	50 51	13.80	41	12.63	56 33
14.24	1	92.59	54 02	16.80	48	98.49	55 02	15.11	32	4.02	53 16	16.34	6	8.31	54 52	13.94	42	12.72	55 01
16.46	1	92.60	58 08	16.80	49	98.64	50 18	10.21	32	4.05	57 41	16.80	7	8.40	55 47	12.75	45	13.18	50 22
15.36	1	92.61	59 21	16.80	50	98.69	52 13	16.80	33	4.10	56 12	14.94	7	8.40	51 22	13.87	47	13.37	56 02
16.80	2	92.67	51 10	15.02	50	98.71	55 24	15.82	33	4.14	53 58	16.80	8	8.47	55 40	13.12	48	13.53	50 16
11.82	2	92.72	56 31	16.80	50	98.75	54 38	15.23	34	4.26	58 40	16.61	8	8.49	59 21	15.45	48	13.54	51 14
16.80	3	92.84	55 19	16.80	51	98.91	52 54	14.70	34	4.31	54 26	16.61	9	8.67	59 10	16.80	49	13.67	53 41
16.06	3	92.88	51 55	16.34	52	99.03	50 53	15.82	35	4.35	51 39	13.87	10	8.78	56 44	15.23	50	13.72	50 10
16.80	4	93.04	57 20	15.45	52	99.04	51 21	16.34	35	4.36	55 32	16.16	11	8.84	56 53	16.80	50	13.76	58 39
15.68	5	93.15	50 11	15.23	55	99.33	56 29	15.54	38	4.78	52 59	16.80	11	8.85	51 11	16.46	50	13.79	54 55
16.80	5	93.16	51 07	15.54	55	99.33	59 24	13.98	38	4.83	54 52	15.23	12	8.99	51 50	16.80	50	13.79	50 21
16.61	6	93.24	56 27	13.87	55	99.41	58 37	16.46	39	4.84	51 09	16.61	12	9.06	50 07	13.87	52	14.08	50 49
16.80	7	93.35	56 50	14.90	57	99.62	56 42	15.59	39	4.87	52 33	14.47	14	9.25	59 47	16.80	52	14.09	53 51
15.54	7	93.41	50 19	16.80	58	99.80	58 38	16.80	40	5.00	50 03	16.80	14	9.27	50 57	15.77	53	14.17	53 09
15.59	9	93.57	59 09	15.59	24 2	0.23	56 01	16.06	41	5.13	58 09	16.80	15	9.42	50 47	13.50	54	14.23	52 08
16.06	9	93.58	56 33	15.68	4	0.55	56 31	16.06	41	5.14	54 29	16.28	16	9.48	54 41	16.61	55	14.39	55 03
16.06	10	93.67	57 20	15.02	5	0.58	55 36	14.90	41	5.15	50 52	15.82	16	9.58	58 44	14.90	55	14.41	56 06
16.46	11	93.81	55 11	14.43	6	0.76	54 04	14.24	41	5.16	58 58	14.82	17	9.69	53 02	15.02	55	14.41	58 11
15.82	12	94.04	52 11	14.74	6	0.77	54 28	16.61	41	5.19	56 45	12.56	18	9.79	59 51	14.82	55	14.45	58 51
13.31	14	94.22	51 46	15.36	6	0.78	56 54	14.17	42	5.30	54 10	16.80	18	9.81	59 01	16.34	56	14.59	55 11
15.36	16	94.51	50 31	14.62	6	0.79	53 43	14.24	42	5.30	53 48	16.80	19	9.88	59 13	15.68	57	14.71	55 46
11.70	17	94.61	55 33	15.54	8	0.94	58 48	15.68	43	5.38	50 01	12.75	20	9.96	54 10	13.50	59	14.95	55 06
15.28	20	95.02	59 05	16.80	9	1.18	58 45	16.61	44	5.50	52 30	14.05	20	10.06	53 39	16.80	26 2	15.23	52 11
16.46	21	95.07	56 01	16.06	11	1.33	55 02	15.77	44	5.57	54 19	16.80	23	10.38	55 50	13.68	3	15.41	59 13
13.68	22	95.30	53 42	16.80	11	1.34	56 43	14.54	45	5.65	53 48	15.82	24	10.57	53 20	13.31	3	15.46	52 03
16.01	24	95.47	50 47	15.91	12	1.51	57 47	14.17	46	5.73	55 27	14.17	25	10.67	55 30	15.91	4	15.52	56 42

25 prec. + 40 sec. + 6′ 30″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$ / $y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.80	26 4	15.60	57 09	16.80	26 38	19.84	55 38	16.34	22 3	85.40	4 59	14.17	22 56	91.97	3 47	16.61	23 54	99.22	0 44
16.46	5	15.65	57 19	16.61	41	20.14	56 53	16.01	4	85.53	9 38	15.11	56	92.09	2 50	13.68	54	99.26	3 02
15.59	5	15.69	55 42	16.80	41	20.22	58 50	16.61	5	85.68	6 08	15.54	58	92.25	4 33	15.82	54	99.31	7 21
16.80	6	15.74	57 42	16.80	42	20.36	59 23	16.61	5	85.70	5 18	16.06	59	92.35	4 44	13.68	57	99.58	8 02
16.34	6	15.77	57 30	14.94	43	20.44	51 07	12.93	6	85.78	9 25	16.61	23 1	92.66	6 30	14.32	57	99.64	5 46
16.34	6	15.80	58 27	15.54	44	20.49	51 45	16.80	9	86.18	4 37	15.77	2	92.81	5 37	16.80	59	99.85	1 59
15.54	6	15.81	54 11	16.80	44	20.50	55 51	16.61	10	86.25	4 10	16.80	3	92.93	2 40	16.80	24 1	0.08	6 57
16.80	7	15.86	52 35	14.82	44	20.57	51 54	16.06	10	86.31	8 20	16.80	4	93.00	3 01	12.56	1	0.17	6 23
16.80	8	16.04	50 24	16.16	46	20.80	57 17	15.68	10	86.32	8 29	14.51	4	93.04	7 48	16.80	2	0.22	7 38
16.46	9	16.10	57 13	14.90	49	21.14	57 18	14.78	12	86.57	0 06	16.06	7	93.36	4 34	16.16	3	0.34	6 58
14.94	10	16.24	59 49	16.28	50	21.30	51 52	16.80	13	86.65	6 40	16.80	7	93.37	6 22	15.11	3	0.39	5 43
16.16	10	16.28	59 21	16.06	50	21.34	55 30	12.19	13	86.67	3 45	16.80	8	93.51	7 42	15.02	4	0.44	7 51
13.68	10	16.35	59 01	13.31	51	21.48	51 57	12.75	13	86.68	1 53	14.43	12	93.99	9 58	12.75	4	0.54	2 23
16.34	12	16.56	58 46	15.68	52	21.57	53 12	15.82	13	86.72	4 21	13.50	12	94.02	8 36	16.28	5	0.57	4 48
16.01	13	16.61	56 48	16.28	54	21.87	53 33	13.87	14	86.81	2 44	16.34	13	94.15	6 52	16.80	5	0.67	1 05
16.61	13	16.70	53 37	16.80	55	21.90	52 42	15.23	15	86.89	7 29	16.80	13	94.18	5 42	16.61	6	0.73	7 00
14.90	14	16.82	59 01	16.80	56	22.10	56 20	16.06	16	87.08	4 45	16.80	15	94.41	2 28	16.28	6	0.79	3 10
15.32	16	17.01	55 19	16.80	57	22.23	53 14	16.80	19	87.46	5 20	16.80	16	94.48	2 09	15.41	7	0.84	9 40
16.80	17	17.16	58 27	15.77	59	22.39	52 38	15.59	20	87.53	3 00	16.28	16	94.50	7 28	16.80	7	0.88	9 05
16.80	18	17.30	53 42	16.80	27 0	22.51	51 32	16.61	21	87.61	5 00	11.38	17	94.65	1 37	16.61	8	1.01	2 34
16.80	20	17.53	57 44	15.23	2	22.75	53 54	16.80	21	87.71	9 01	16.80	18	94.70	4 42	16.46	9	1.11	6 03
15.32	20	17.58	56 48	14.62	2	22.76	57 55	14.62	22	87.81	3 43	16.61	18	94.79	7 44	16.01	9	1.12	9 16
16.61	20	17.60	59 08	16.46	2	22.77	57 29	15.45	23	87.91	1 55	16.80	18	94.80	7 20	16.80	10	1.21	4 06
16.28	21	17.72	55 51	8.8 :	2	22.84	56 30	16.61	23	87.92	8 09	14.62	19	94.90	5 37	16.46	10	1.31	2 19
15.77	22	17.76	58 22	16.80	21 45	83.16	7 15	16.61	23	87.96	3 05	13.80	21	95.13	9 42	15.54	13	1.63	9 30
16.80	23	17.87	54 21	16.80	45	83.16	2 10	13.50	24	88.01	9 16	16.80	21	95.13	4 18	16.01	13	1.67	6 28
16.28	25	18.16	52 33	16.80	46	83.31	5 27	15.59	28	88.54	8 22	16.06	21	95.14	8 35	16.80	16	1.99	5 19
15.45	26	18.25	56 42	16.34	46	83.35	8 26	15.02	28	88.54	7 19	16.80	22	95.20	5 11	16.80	16	2.01	5 54
16.34	26	18.26	56 37	14.62	47	83.47	6 30	12.75	28	88.59	1 15	16.06	22	95.31	0 31	16.61	17	2.15	7 28
12.56	26	18.36	55 13	15.91	48	83.53	4 18	16.80	30	88.83	4 18	16.80	23	95.41	4 18	16.80	18	2.25	3 14
15.32	27	18.44	54 53	13.87	48	83.53	2 07	15.45	33	89.15	4 07	16.61	24	95.47	5 38	14.90	18	2.30	3 38
16.01	29	18.64	53 19	15.02	48	83.57	4 40	13.87	33	89.20	6 13	16.61	24	95.55	4 32	13.31	19	2.39	6 07
14.70	29	18.71	59 02	14.82	48	83.60	7 33	16.80	35	89.36	0 05	16.61	25	95.65	7 52	15.59	20	2.48	4 12
14.74	30	18.74	59 28	16.80	50	83.81	5 16	15.02	36	89.53	3 37	15.77	27	95.87	9 12	16.46	22	2.81	8 58
14.62	30	18.75	59 14	16.80	51	83.93	6 55	14.90	36	89.56	7 35	16.34	29	96.15	1 49	16.01	24	2.97	7 24
15.54	30	18.76	50 27	16.80	52	84.00	2 33	16.61	39	89.89	4 29	15.82	30	96.25	2 10	15.36	25	3.08	1 59
16.06	30	18.85	54 32	16.46	52	84.03	0 26	16.06	39	89.94	3 59	16.80	31	96.44	6 55	14.70	26	3.29	9 27
16.16	31	18.89	54 20	16.80	52	84.05	1 33	15.82	40	89.99	3 03	16.80	33	96.67	2 28	15.15	26	3.29	3 23
14.66	32	19.06	59 44	16.52	53	84.16	9 58	15.59	41	90.18	8 22	13.31	36	97.03	7 43	15.77	27	3.31	1 23
15.45	32	19.07	52 49	15.45	53	84.19	7 47	14.62	42	90.22	4 01	16.06	36	97.05	2 53	9.67	27	3.35	6 35
12.56	33	19.17	52 37	14.43	53	84.20	4 38	16.46	42	90.29	8 50	14.62	37	97.15	3 36	16.80	27	3.39	0 39
16.80	34	19.27	58 21	15.23	54	84.23	5 14	16.06	42	90.31	0 58	12.01	40	97.53	2 27	13.50	29	3.57	5 53
16.61	34	19.33	58 01	16.80	54	84.27	6 50	16.61	42	90.33	2 42	16.01	41	97.68	9 07	13.31	29	3.59	4 00
15.23	34	19.33	53 20	16.61	55	84.37	6 01	15.45	46	90.75	8 42	16.61	42	97.71	8 40	16.61	30	3.71	6 15
16.28	35	19.42	50 44	15.91	56	84.53	8 16	15.54	47	90.92	6 07	15.02 :	42	97.71	8 30	16.16	30	3.75	5 00
15.36	35	19.43	58 08	14.09	56	84.53	0 31	16.80	48	91.00	4 59	16.06	43	97.92	9 21	13.12	32	3.97	6 03
16.01	35	19.44	53 25	16.80	57	84.65	6 32	15.77	48	91.00	4 22	16.80	52	98.98	7 25	16.11	38	4.77	9 57
13.12	36	19.53	58 14	15.77	22 1	85.20	6 43	16.80	49	91.18	2 39	16.80	52	99.01	8 29	16.61	39	4.85	0 58
12.19	37	19.63	59 44	15.11	2	85.26	5 48	16.61	50	91.22	0 30	16.61	52	99.03	3 52	16.16	40	5.04	3 13
16.80	37	19.69	55 30	16.06	2	85.31	4 05	15.59	52	91.50	3 24	16.80	53	99.10	9 14	14.17	41	50.8	3 43

25 prec. + 40 sec. + 6′ 30″.

551—600				601—650				651—700				701—750				751—800			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
16.34	24 41	5.14	3 28	16.80	25 26	10.72	0 49	16.80	26 7	15.79	9 17	15.82	26 47	20.84	1 20	15.36	22 39	89.95	14 55
16.06	41	5.17	6 37	15.91	26	10.76	5 16	16.06	7	15.83	1 57	15.11	50	21.20	8 42	14.24	42	90.33	18 01
15.02	42	5.24	6 59	16.80	27	10.79	0 31	16.01	7	15.89	4 12	16.01	50	21.22	2 53	10.06	42	90.33	12 41
16.46	43	5.37	9 50	15.68	27	10.85	3 28	16.80	8	16.02	7 23	16.46	50	21.22	0 13	10.90	42	90.34	11 35
16.80	44	5.47	2 31	14.47	27	10.88	9 41	16.80	10	16.25	6 04	16.80	52	21.51	3 27	13.12	42	90.38	11 43
15.23	45	5.56	3 18	12.93	27	10.89	2 14	16.01	10	16.26	0 42	14.05	53	21.52	8 23	16.80	44	90.55	19 32
15.36	45	5.57	3 40	13.68	28	10.91	2 03	15.15	11	16.32	2 25	15.45	55	21.81	5 19	14.35	45	90.70	19 07
15.68	45	5.64	5 51	16.80	29	11.15	3 48	15.50	14	16.71	9 44	15.15	56	21.99	4 05	12.56	46	90.79	11 40
12.01	47	5.87	0 19	15.45	30	11.20	2 39	16.61	16	16.91	5 06	16.80	27 0	22.39	5 03	11.14	46	90.83	19 24
16.46	48	5.93	0 31	13.87	32	11.53	1 28	15.91	16	16.93	3 16	14.62	0	22.43	4 12	16.46	47	90.91	12 17
15.45	50	6.21	3 28	16.80	33	11.65	8 32	16.80	16	17.01	8 48	15.45	0	22.49	7 30	16.16	47	90.94	10 59
15.32	51	6.31	4 40	14.62	34	11.75	8 15	15.54	17	17.07	0 45	16.80	2	22.70	6 45	15.36	48	91.03	15 16
16.80	51	6.35	8 41	16.80	34	11.78	4 54	15.15	17	17.13	8 27	16.80	4	22.97	2 03	15.15	48	91.03	18 44
16.28	52	6.42	4 34	15.54	35	11.89	7 58	11.54	18	17.21	2 08	14.17	21 45	83.22	10 28	15.91	48	91.07	16 20
13.98	52	6.55	7 02	15.96	36	11.96	0 09	14.62	20	17.42	6 26	15.45	46	83.33	16 58	16.01	49	91.15	12 38
16.80	55	6.88	8 35	15.54	37	12.15	7 24	14.62	20	17.44	4 03	15.82	48	83.66	15 04	16.80	55	91.88	19 40
11.28	56	6.94	9 55	14.05	38	12.20	5 16	16.61	20	17.50	6 49	14.70	53	84.29	15 32	16.80	55	91.90	17 19
14.32	56	6.97	0 23	13.12	40	12.41	1 36	16.46	21	17.62	8 29	12.93	56	84.64	17 02	16.80	55	91.93	14 57
14.32	59	7.30	8 58	16.80	41	12.65	8 31	14.90	23	17.79	1 48	16.80	58	84.81	19 55	16.80	56	92.01	19 49
16.46	25 0	7.45	7 53	16.80	42	12.76	0 00	14.51	26	18.18	6 12	16.80	59	84.97	12 23	16.01	56	92.02	16 25
16.80	2	7.67	1 49	14.05	43	12.90	9 12	13.50	26	18.18	1 23	16.46	22 0	85.17	11 12	15.36	56	92.08	14 48
15.11	2	7.71	0 52	16.80	44	12.94	3 30	16.06	27	18.31	3 25	15.91	1	85.19	17 09	16.61	56	92.12	12 52
16.06	3	7.82	0 31	12.93	44	13.00	9 46	15.91	27	18.31	5 08	16.80	2	85.35	19 52	13.68	58	92.28	13 51
16.80	5	8.08	8 05	16.80	46	13.16	5 23	13.68	27	18.38	5 47	14.74	3	85.51	16 38	16.61	58	92.32	13 42
16.61	5	8.16	6 03	16.80	47	13.37	9 36	13.87	28	18.49	3 14	16.80	5	85.69	14 19	14.70	59	92.39	18 17
16.46	6	8.18	8 15	16.80	48	13.42	3 24	16.01	28	18.50	0 44	16.34	7	86.00	13 37	16.80	59	92.46	16 34
16.80	6	8.20	9 40	14.51	48	13.43	5 17	15.68	29	18.64	3 09	16.80	8	86.06	17 12	11.93	23 0	92.56	15 28
13.87	8	8.51	3 33	13.87	48	13.48	1 23	16.80	30	18.65	8 58	16.61	9	86.18	15 28	16.80	1	92.62	13 50
16.28	10	8.72	6 54	16.80	50	13.67	6 34	16.80	30	18.72	5 38	15.32	10	86.29	17 56	14.78	1	92.72	19 31
16.80	11	8.83	7 29	16.46	50	13.68	8 22	15.63	30	18.74	9 30	14.82	10	86.31	15 06	16.80	6	93.34	12 01
16.80	12	9.00	1 51	15.15	50	13.73	7 14	14.70	31	18.83	4 50	12.38	10	86.37	10 55	16.16	6	93.35	13 13
15.54	12	9.03	1 17	14.86	50	13.74	9 38	15.02	32	18.95	6 25	16.80	11	86.50	19 19	16.80	6	93.36	15 10
16.80	12	9.03	9 21	16.80	51	13.89	0 32	15.36	32	18.98	3 08	15.45	13	86.67	16 32	16.16	7	93.42	13 43
15.91	13	9.13	8 59	16.80	52	13.92	5 17	16.80	34	19.15	2 36	16.80	13	86.72	13 28	14.62	7	93.42	11 17
16.01	14	9.20	2 40	16.80	54	14.15	1 28	14.90	34	19.25	3 17	16.80	16	87.05	12 01	16.80	10	93.74	15 04
15.23	14	9.21	5 01	16.80	54	14.19	5 01	15.91	35	19.28	1 25	16.80	18	87.36	19 31	16.28	10	93.75	13 51
15.82	14	9.24	3 53	15.96	54	14.22	0 16	16.34	35	19.35	8 18	14.24	22	87.82	18 13	15.23	10	93.75	10 42
16.61	14	9.25	9 49	14.62	54	14.26	4 27	16.28	36	19.46	5 12	16.80	22	87.85	17 00	13.68	11	93.94	11 30
16.46	14	9.26	2 58	16.28	55	14.36	0 31	16.34	36	19.50	4 31	16.01	23	87.93	19 32	15.91	12	94.05	12 43
16.80	15	9.36	2 29	16.80	56	14.42	1 26	16.01	39	19.84	8 20	16.80	23	88.02	15 51	15.59	13	94.22	11 44
15.54	17	9.61	5 41	16.46	57	14.63	8 57	15.68	39	19.86	3 36	15.77	27	88.45	16 04	16.28	14	94.29	16 56
14.54	19	9.87	9 34	16.80	58	14.70	8 30	14.70	41	20.06	0 34	16.80	28	88.58	19 11	15.11	15	94.37	14 52
16.61	21	10.08	2 47	16.80	59	14.89	9 03	15.23	43	20.36	8 19	16.46	29	88.66	11 48	16.01	15	94.44	12 02
16.80	22	10.19	2 39	16.80	26 0	14.94	0 30	15.11	45	20.53	4 35	15.11	30	88.86	15 16	16.46	15	94.47	11 19
16.46	24	10.46	8 36	16.80	1	15.05	7 09	15.77	45	20.57	6 26	15.15	32	89.12	11 47	15.36	16	94.48	10 45
16.80	24	10.53	0 11	15.23	1	15.14	7 12	13.98	46	20.64	6 12	15.11	33	89.22	19 42	16.06	16	94.48	18 40
16.80	25	10.56	2 49	14.94	2	15.21	9 42	15.11	46	20.69	3 33	11.61	35	89.46	19 24	16.80	16	94.52	14 09
14.90	25	10.60	6 50	16.34	3	15.36	0 53	14.24	46	20.72	7 31	16.61	37	89.67	12 22	16.80	19	94.97	15 23
15.23	25	10.61	9 53	15.91	4	15.46	0 36	14.82	46	20.75	5 23	14.94	38	89.87	18 52	15.82	21	95.22	11 51
14.32	26	10.67	9 58	16.52	5	15.61	0 18	16.28	47	20.78	0 36	15.77	39	89.90	17 09	15.36	23	95.40	15 00

25 prec. + 40 sec. + 6' 30".

801—850				851—900				901—950				951—1000				1001—1050			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.16	23 24	95.53	16 24	16.80	24 8	1.00	10 00	15.68	24 48	5.95	19 19	16.34	25 22	10.14	19 31	14.35	26 3	15.28	13 08
16.80	25	95.68	19 10	12.01	9	1.08	12 16	16.80	49	6.12	10 17	16.61	23	10.25	15 23	16.01	4	15.38	17 21
14.17	28	96.02	13 18	16.34	9	1.13	14 27	16.80	50	6.17	18 59	16.80	24	10.41	13 32	16.80	4	15.43	15 00
15.82	28	96.02	14 40	13.31	10	1.24	15 21	16.61	50	6.25	12 30	16.46	26	10.70	11 55	16.28	5	15.55	14 07
14.62	28	96.03	18 41	16.61	10	1.26	19 40	16.06	51	6.37	14 05	16.80	27	10.83	16 44	16.80	6	15.62	17 11
16.34	29	96.11	17 52	16.06	10	1.27	17 31	16.01	52	6.41	19 26	16.80	28	10.90	17 39	16.34	7	15.70	18 17
16.61	29	96.20	10 10	16.16	10	1.27	14 58	15.23	53	6.56	11 09	14.94	29	11.02	19 39	16.80	7	15.71	18 03
15.59	31	96.35	10 57	15.02	12	1.54	17 01	13.98	53	6.56	17 07	15.02	29	11.05	10 11	16.80	7	15.72	10 43
14.74	31	96.36	11 31	16.80	13	1.62	10 16	16.46	53	6.58	15 50	12.75	29	11.09	14 34	16.80	7	15.72	14 20
15.32	31	96.44	16 32	16.01	14	1.67	19 22	16.80	55	6.83	11 10	16.46	30	11.12	13 31	16.80	7	15.79	15 03
16.80	32	96.49	17 54	15.73	15	1.88	19 53	16.80	58	7.13	15 29	16.34	30	11.16	17 19	16.80	7	15.80	16 08
15.54	33	96.68	11 17	12.56	16	1.96	16 03	15.36	58	7.14	15 53	16.61	30	11.22	15 36	14.54	9	16.05	10 39
16.06	34	96.75	10 38	16.34	16	2.02	19 42	15.77	58	7.25	10 36	16.80	31	11.24	17 30	16.61	11	16.20	18 06
12.38	34	96.84	12 53	13.50	18	2.18	13 07	16.28	59	7.36	15 50	16.61	31	11.24	13 56	16.06	11	16.24	19 24
16.80	37	97.12	10 25	15.23	19	2.41	16 00	14.43	59	7.36	18 43	16.01	31	11.33	18 38	15.11	12	16.35	19 03
16.80	37	97.13	19 14	16.80	20	2.42	13 52	15.68	25 0	7.41	11 28	15.77	32	11.35	18 19	15.15	13	16.46	15 59
16.80	37	97.20	11 14	15.36	23	2.80	16 53	16.80	1	7.54	14 22	15.54	33	11.57	16 01	15.91	16	16.82	15 56
16.80	38	97.31	19 28	14.24	23	2.82	11 50	13.94	2	7.68	10 19	16.80	34	11.61	14 01	15.02	16	16.84	17 41
16.80	40	97.49	16 24	16.28	24	2.91	10 50	16.28	2	7.72	17 59	16.80	35	11.74	17 01	16.61	18	17.08	15 40
14.17	42	97.79	12 33	14.43	24	2.96	16 44	15.45	3	7.84	13 10	16.34	35	11.84	10 52	16.61	18	17.13	12 37
15.23	42	97.83	19 14	15.82	25	3.13	10 17	16.80	4	7.90	15 32	14.62	35	11.84	11 53	16.16	21	17.46	11 22
15.59	43	97.84	18 32	16.61	26	3.28	19 10	16.61	5	8.11	13 14	13.31	37	11.98	18 02	16.80	21	17.48	10 12
15.91	43	97.92	19 31	16.80	27	3.36	14 44	16.80	6	8.17	13 41	16.80	38	12.12	11 11	16.61	23	17.75	18 09
16.61	43	97.92	17 51	16.16	28	3.43	14 29	15.23	6	8.19	16 38	16.80	40	12.37	16 11	16.80	24	17.86	16 48
16.16	44	97.99	11 43	14.62	28	3.51	13 08	16.80	7	8.30	17 29	15.36	43	12.81	14 44	16.80	25	17.98	16 19
16.80	44	98.01	12 10	16.80	29	3.56	12 44	16.34	7	8.31	14 53	13.50	44	12.84	19 04	16.80	25	17.99	18 51
16.34	44	98.04	17 34	14.82	29	3.64	13 42	16.46	8	8.43	14 21	15.82	44	12.85	17 53	16.80	25	17.99	15 05
16.80	45	98.16	14 01	13.50	30	3.67	11 19	16.06	8	8.43	10 03	16.61	44	12.97	10 58	16.80	26	18.08	19 33
16.80	47	98.42	19 40	14.35	31	3.81	13 58	16.80	8	8.44	13 55	15.91	45	13.06	14 12	14.90	29	18.46	12 12
16.06	48	98.47	13 02	16.01	31	3.84	19 21	16.80	10	8.65	19 37	16.16	47	13.22	16 28	11.53	30	18.55	15 54
16.61	49	98.63	12 00	13.57 :	31	3.87	19 45	14.62	13	9.02	10 38	16.06	47	13.29	17 26	14.82	30	18.58	16 47
16.06	50	98.76	13 59	16.80	32	3.99	12 11	16.80	13	9.07	11 52	15.77	47	13.32	17 04	15.02	30	18.62	18 01
16.01	52	98.96	10 33	16.80	33	4.11	11 02	16.28	13	9.07	16 31	15.36	47	13.32	14 05	14.24	30	18.63	10 58
11.75	53	99.13	13 24	15.59	36	4.44	12 43	16.34	13	9.10	19 31	14.82	47	13.32	11 45	16.28	30	18.64	16 08
15.15	53	99.14	18 32	15.11	36	4.47	17 21	16.80	13	9.10	14 32	15.23	48	13.37	16 45	16.06	30	18.66	19 12
16.80	55	99.37	19 00	16.80	37	4.53	15 39	16.61	13	9.11	18 32	16.80	48	13.42	15 59	13.87	33	19.03	18 14
16.61	57	99.58	14 17	16.01	37	4.64	19 56	16.61	14	9.15	13 22	13.50	49	13.47	11 47	13.87	34	19.06	10 08
12.19	57	99.58	15 27	16.80	38	4.66	15 24	16.80	14	9.18	17 02	16.80	49	13.52	16 41	16.80	35	19.21	15 50
15.59	57	99.65	18 32	14.94	38	4.73	14 18	16.06	14	9.19	17 59	16.80	50	13.63	11 02	15.11	36	19.36	17 52
14.17	59	99.88	15 50	15.23	42	5.16	15 52	13.87	15	9.30	12 47	16.80	50	13.66	16 15	13.98	37	19.50	16 33
12.56	59	99.92	14 01	15.82	42	5.27	12 20	15.91	15	9.36	10 39	16.80	51	13.74	17 33	16.80	38	19.55	12 52
16.16	24 0	99.99	19 12	16.80	43	5.28	18 34	16.34	18	9.72	16 14	16.80	51	13.78	12 54	16.80	38	19.61	14 27
16.01	0	0.05	11 40	16.80	43	5.35	16 09	16.80	19	9.76	17 37	16.80	52	13.84	11 07	16.80	40	19.79	10 48
11.79	1	0.14	16 47	14.24	44	5.47	16 43	15.54	19	9.82	10 44	16.06	52	13.89	16 01	15.59	40	19.89	17 50
16.80	1	0.16	19 49	16.80	45	5.54	17 25	15.45	19	9.83	10 59	16.06	57	14.56	12 08	16.80	41	19.92	13 54
16.80	4	0.53	12 41	15.36	45	5.57	13 26	14.35	19	9.83	12 49	13.12	58	14.65	15 04	14.05	43	20.22	17 34
15.59	4	0.53	12 04	16.46	46	5.74	13 41	14.94	19	9.86	15 26	16.80	59	14.75	10 27	14.74	43	20.22	12 12
16.80	5	0.64	13 30	15.11	47	5.78	17 21	15.82	20	9.90	15 37	12.08	26 2	15.07	10 15	16.46	46	20.56	18 00
16.80	7	0.85	19 40	15.23	47	5.88	10 11	16.61	20	9.99	14 46	14.62	2	15.10	15 23	16.06	46	20.64	13 34
16.61	8	1.00	13 09	15.68	48	5.92	18 06	16.80	21	10.10	18 10	16.34	2	15.20	18 38	12.38	47	20.75	11 51

25 prec. + 40 sec. + 6′ 31″.

1051—1100				1101—1150				1151—1200				1201—1250				1251—1300			
Int. magn.	a	x	y+10'	Int. magn.	a	x	y+10'	Int. magn.	a	x	y+10'	Int. magn.	a	x	y+10'	Int. magn.	a	x	y+10'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
16.01	26 49	20.91	18 50	15.77	22 24	88.18	22 01	15.36	23 4	93.15	26 27	16.61	24 4	0.52	22 20	16.01	24 56	6.96	25 21
16.16	51	21.19	13 40	16.80	25	88.30	22 16	16.34	5	93.22	29 40	16.80	6	0.76	21 47	14.43	57	7.01	26 28
16.34	52	21.37	14 40	16.28	25	88.30	29 51	16.80	5	93.26	21 13	16.34	6	0.78	26 30	14.43	25 0	7.36	22 00
12.08	53	21.42	10 24	16.80	26	88.40	26 21	12.93	6	93.33	28 47	16.80	8	1.01	20 52	13.50	0	7.41	20 55
16.46	53	21.49	16 12	16.06	26	88.40	25 46	13.87	6	93.34	28 16	11.42	8	1.04	26 08	15.36	1	7.51	22 13
15.59	54	21.53	16 45	16.28	26	88.42	23 42	15.02	7	93.41	20 58	16.06	10	1.21	21 46	16.80	1	7.58	29 24
16.80	54	21.53	15 42	16.80	27	88.48	21 32	16.80	8	93.52	21 08	16.61	11	1.37	20 01	12.56	2	7.70	24 13
16.01	54	21.58	12 51	13.68	29	88.76	29 39	15.77	8	93.53	29 44	16.01	12	1.47	28 33	13.50	3	7.80	23 55
16.80	57	21.92	18 20	16.61	33	89.27	21 57	15.54	8	93.54	26 00	12.38	13	1.58	23 51	16.80	4	7.87	28 41
16.28	57	21.92	14 10	13.68	33	89.27	26 38	15.59	9	93.68	21 35	15.45	13	1.62	22 57	16.80	5	8.02	21 55
14.24	58	22.08	14 14	16.46	34	89.41	28 53	15.91	10	93.79	20 37	15.45	14	1.79	24 20	16.80	7	8.25	21 15
16.34	58	22.11	11 23	15.36	35	89.48	25 22	16.61	13	94.24	28 43	16.80	15	1.89	24 45	16.06	8	8.41	22 03
15.54	59	22.18	14 23	16.80	35	89.52	23 52	16.80	14	94.37	28 46	16.34	17	2.05	27 59	13.50	9	8.50	27 38
16.28	27 2	22.56	16 23	14.70	36	89.65	28 20	13.50	15	94.44	21 29	16.01	18	2.22	25 21	14.17	12	8.82	22 07
15.23	3	22.74	15 31	14.17	36	89.68	20 56	12.93	16	94.55	27 35	16.46	18	2.25	22 46	16.46	13	9.03	24 13
16.06	4	22.84	12 29	12.93	37	89.75	29 11	16.61	17	94.69	28 41	16.01	19	2.32	22 23	16.16	13	9.06	21 52
16.80	21 43	83.05	27 55	15.54	40	90.10	25 14	16.61	17	94.74	29 34	16.34	19	2.33	24 52	16.16	15	9.21	25 31
16.61	44	83.16	25 06	13.12	42	90.31	29 19	16.80	18	94.85	25 07	14.94	22	2.70	27 30	16.80	15	9.28	24 52
15.68	45	83.36	26 21	15.77	42	90.38	20 02	16.16	19	94.90	28 52	16.80	24	2.91	29 13	16.80	15	9.30	25 26
16.80	45	83.39	27 09	16.80	42	90.43	22 21	15.11	19	94.90	24 40	16.06	25	3.03	21 12	16.80	16	9.35	26 06
12.38	46	83.41	24 09	15.11	43	90.45	28 47	15.02	24	95.50	25 59	16.80	27	3.29	20 54	16.46	16	9.40	26 24
16.61	46	83.45	23 25	16.61	43	90.50	21 50	15.77	24	95.51	28 56	16.80	27	3.37	21 12	16.80	18	9.58	23 38
12.75	46	83.45	28 06	14.24	44	90.56	23 49	11.26	26	95.81	21 11	16.80	28	3.42	24 14	13.12	23	10.22	21 16
16.46	49	83.87	29 21	13.31	44	90.63	25 50	16.46	27	95.92	20 06	15.45	29	3.60	20 33	16.80	23	10.27	23 27
16.80	50	83.98	29 41	16.16	45	90.74	25 45	13.31	27	95.96	28 15	16.22	30	3.65	20 20	15.59	24	10.34	20 50
15.91	51	84.11	25 22	16.80	46	90.87	28 41	16.80	27	95.98	21 47	16.34	31	3.84	29 59	16.01	26	10.63	27 20
14.70	52	84.20	25 16	16.46	46	90.89	26 41	15.82	28	96.01	23 40	16.06	33	4.04	27 23	12.01	26	10.67	22 26
16.80	55	84.54	25 28	16.34	46	90.90	28 52	13.31	31	96.47	24 38	15.32	33	4.06	23 31	16.61	27	10.69	22 11
15.91	56	84.72	26 17	15.54	48	91.06	25 17	15.59	31	96.48	21 40	15.91	33	4.11	25 00	16.61	27	10.75	27 56
16.80	22 0	85.20	22 49	10.82	49	91.23	20 06	16.80	32	96.60	23 56	15.11	33	4.11	25 21	16.46	28	10.82	22 52
16.80	0	85.25	27 18	13.50	49	91.23	22 04	16.80	36	97.05	23 03	16.28	34	4.16	24 54	16.80	29	10.98	29 31
12.38	2	85.48	28 05	16.61	49	91.28	24 48	16.80	37	97.14	21 13	9.99	35	4.31	27 48	15.54	30	11.07	26 52
16.80	3	85.53	21 35	16.80	50	91.33	23 12	15.73	39	97.40	20 30	16.28	35	4.37	21 31	16.80	30	11.17	22 21
16.80	3	85.61	22 08	15.77	50	91.40	20 27	15.91	41	97.60	22 39	16.80	36	4.39	26 24	11.38	31	11.18	27 27
13.12	5	85.82	26 25	15.45	51	91.50	25 49	12.93	41	97.66	26 29	14.70	39	4.79	23 24	16.80	31	11.21	22 09
16.28	6	85.88	27 12	16.80	53	91.76	24 28	14.62	45	98.10	29 45	14.74	39	4.80	28 27	10.97	32	11.34	23 50
16.80	6	85.88	20 51	16.80	54	91.86	20 56	15.91	48	98.48	20 25	15.02	40	4.92	23 37	16.46	33	11.48	27 26
15.45	7	86.07	21 30	16.80	55	92.03	24 10	15.11	48	98.49	25 28	16.80	40	4.95	20 46	13.68	34	11.58	28 52
15.15	7	86.11	29 52	16.28	57	92.18	23 08	12.75	48	98.51	29 22	16.46	42	5.12	26 45	14.17	35	11.67	29 44
16.01	8	86.22	26 25	16.34	57	92.19	29 19	16.06	48	98.56	21 13	15.23	42	5.25	23 23	15.91	35	11.78	22 15
16.34	8	86.22	26 38	14.13	57	92.21	25 30	12.93	52	99.01	23 59	14.24	43	5.35	25 13	14.47	37	12.00	20 03
16.46	10	86.44	29 32	16.80	57	92.25	29 01	16.80	52	99.06	22 43	13.87	44	5.41	21 17	14.70	38	12.03	28 53
15.45	14	86.90	29 12	15.54	59	92.50	28 23	16.80	53	99.16	22 23	16.61	44	5.42	26 06	14.35	38	12.12	21 34
16.80	16	87.16	27 05	14.70	59	92.50	22 42	16.46	54	99.23	29 00	16.80	45	5.58	21 00	16.01	39	12.19	29 32
14.74	17	87.24	22 22	15.59	23 0	92.56	21 14	15.54	55	99.41	20 14	15.11	46	5.67	22 58	15.23	40	12.36	20 09
15.68	19	87.49	23 10	16.61	1	92.69	29 11	16.80	59	99.92	26 19	16.80	48	5.92	26 30	16.01	42	12.61	28 52
15.91	19	87.53	26 18	16.46	1	92.71	22 57	16.80	24 0	99.95	29 31	14.35	51	6.30	25 01	16.06	42	12.64	20 00
16.34	21	87.74	22 41	16.80	2	92.89	29 30	16.80	2	0.21	23 49	14.70	51	6.31	29 56	14.35	44	12.80	29 01
16.80	21	87.75	29 25	15.45	3	92.95	21 53	16.80	2	0.29	20 10	15.59	51	6.34	22 24	16.80	44	12.83	22 21
14.90	24	88.16	22 43	12.75	4	93.03	22 27	16.80	3	0.39	29 55	16.80	55	6.84	26 37	16.11	47	13.18	20 24

25 prec. + 40 sec. + 6′ 30″.

Area 18.

1301—1320				1321—1340				1341—1360				1361—1372							
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$				
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″				
16.80	25 48	13.38	23 16	13.87	26 10	16.00	28 28	14.94	26 29	18.41	27 39	16.80	26 50	21.01	29 15				
16.06	49	13.51	28 27	16.80	11	16.19	28 51	15.59	29	18.44	26 07	15.11	50	21.02	28 08				
16.80	50	13.64	24 42	16.46	12	16.25	26 36	12.38	31	18.67	28 57	15.45	52	21.18	23 37				
16.80	51	13.71	22 16	12.93	12	16.28	23 11	16.80	32	18.75	23 21	15.77	56	21.77	23 08				
16.80	53	13.93	26 43	16.80	12	16.34	27 32	16.01	33	18.85	22 12	16.61	27 0	22.17	21 37				
16.34	54	14.07	28 11	16.80	14	16.53	24 23	15.32	34	18.95	27 55	15.54	1	22.31	22 05				
15.82	55	14.18	22 25	15.32	18	16.98	23 06	12.75	35	19.08	20 58	16.46	1	22.35	21 38				
16.06	56	14.36	20 53	15.82	18	17.08	25 21	16.28	38	19.48	23 08	16.80	2	22.41	24 44				
11.31	58	14.54	25 28	16.28	19	17.17	23 41	16.80	38	19.54	23 25	16.80	2	22.43	29 34				
16.80	58	14.61	21 23	14.32	19	17.20	22 39	15.23	40	19.80	28 31	16.34	2	22.52	26 11				
15.91	59	14.71	25 37	16.80	19	17.21	28 12	16.80	41	19.92	29 04	16.06	4	22.65	21 58				
15.11	26 0	14.78	21 45	12.56	21	17.38	20 33	16.16	43	20.07	21 50	16.61	4	22.76	26 12				
11.54	1	14.89	27 32	15.45	21	17.40	25 36	16.34	43	20.09	26 14								
13.98	1	14.92	25 59	14.94	22	17.52	21 56	15.15	43	20.17	20 05								
15.45	4	15.26	23 25	14.35	22	17.55	27 35	15.91	44	20.26	23 27								
15.91	4	15.29	29 33	14.94	24	17.77	22 19	16.80	45	20.42	29 25								
10.65	4	15.36	27 43	16.61	25	17.88	23 53	16.80	47	20.60	20 02								
15.91	6	15.58	20 55	15.77	27	18.18	29 08	15.77	48	20.74	22 10								
16.80	8	15.83	21 06	14.90	27	18.18	22 13	11.79	48	20.75	26 02								
14.62	8	15.83	28 28	15.68	28	18.29	26 34	16.80	49	20.90	26 23								

25 prec. + 40 sec. + 6′ 32″.

23h Area 19. Centre for 1900: 23h 23m + 60° 0′. + 59°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.14	20 21	80.00	43 58	15.04	20 42	82.56	41 27	12.71	21 14	86.71	45 22	14.92	21 47	90.85	47 28	10.50	22 25	95.55	45 29
16.18	23	80.18	48 36	15.04	43	82.74	40 27	15.04	18	87.10	44 52	16.18	48	90.92	44 28	16.18	26	95.67	48 53
15.99	24	80.32	47 59	14.76	48	83.34	49 19	13.53	18	87.13	45 10	16.18	49	91.05	45 54	14.06	26	95.67	49 21
13.88	24	80.40	47 41	16.18	48	83.42	41 37	14.86	20	87.42	49 38	16.18	50	91.19	48 39	14.86	26	95.71	45 16
13.20	24	80.42	40 53	14.65	49	83.46	45 11	16.18	22	87.62	44 10	15.04	54	91.73	44 59	16.18	31	96.37	47 13
16.18	25	80.53	42 18	15.54	49	83.47	44 12	15.84	25	88.00	43 29	12.38	56	91.99	44 13	12.71	35	96.81	49 03
16.18	28	80.84	41 47	13.53	50	83.65	44 10	15.39	25	88.01	44 17	14.76	57	92.10	45 06	15.25	37	97.14	40 18
14.92	29	80.95	45 28	15.84	52	83.85	42 38	14.41	27	88.24	46 51	15.99	58	92.13	41 06	13.53	39	97.38	40 52
15.54	29	81.00	48 23	15.84	52	83.90	48 08	13.63	27	88.28	46 12	15.25	58	92.21	43 21	15.25	39	97.39	47 41
15.04	29	81.00	49 55	12.05	53	84.00	44 44	16.18	27	88.33	42 29	15.04	22 3	92.87	48 12	15.18	40	97.44	41 19
14.98	31	81.25	49 50	15.04	53	84.03	46 25	11.72	28	88.44	40 45	15.25	7	93.32	44 47	13.77	40	97.51	43 05
16.18	33	81.51	48 30	13.53	21 0	84.88	47 49	14.92	29	88.52	48 59	13.88	8	93.46	40 18	13.30	42	97.77	36 07
15.25	36	81.83	47 40	16.18	3	85.22	43 43	14.65	30	88.73	40 41	15.25	9	93.62	43 42	15.84	43	97.89	46 42
16.18	36	81.92	40 34	14.92	5	85.54	44 38	16.18	31	88.82	48 29	14.60	10	93.68	42 47	14.81	48	98.52	49 33
14.27	38	82.09	48 42	16.18	9	86.00	46 57	15.18	32	88.86	40 20	11.72	10	93.76	41 34	12.97	49	98.59	49 56
15.25	38	82.16	41 11	15.25	9	86.07	42 10	16.18	33	89.01	48 26	16.18	11	93.86	43 37	13.81	49	98.59	42 08
16.18	39	82.27	40 11	15.39	11	86.23	46 31	16.18	34	89.22	48 31	13.81	15	94.36	43 17	13.04	49	98.67	43 32
14.65	40	82.39	44 20	16.18	12	86.37	43 11	15.63	36	89.43	48 15	16.18	16	94.48	47 51	16.18	51	98.87	42 08
15.39	42	82.55	43 38	13.95	14	86.59	48 54	13.30	42	90.19	45 47	15.54	17	94.57	48 19	15.63	52	98.97	48 34
14.14	42	82.56	44 07	15.18	14	86.62	47 50	15.39	45	90.54	45 40	15.04	19	94.82	40 59	16.18	52	99.02	46 14

25 prec. + 67 sec. + 8′ 14″.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	*a*	*x*	*y*+60′	Int. magn.	*a*	*x*	*y*+60′	Int. magn.	*a*	*x*	*y*+60′	Int. magn.	*a*	*x*	*y*+60′	Int. magn.	*a*	*x*	*y*+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.05	22 52	99.03	48 05	15.63	23 48	6.09	44 43	15.84	24 45	13.19	47 58	13.44	20 33	81.61	50 48	16.18	21 38	89.73	52 57
13.20	52	99.04	44 36	15.18	49	6.21	47 18	16.18	45	13.22	40 00	15.54	34	81.73	51 21	16.18	42	90.17	57 48
15.39	53	99.08	49 18	15.25	50	6.31	47 33	14.92	46	13.35	47 58	15.99	35	81.79	55 54	15.99	42	90.22	59 42
15.84	55	99.37	46 12	15.25	54	6.75	48 40	14.14	46	13.38	42 32	12.87	35	81.82	58 14	15.39	45	90.59	57 47
14.41	55	99.41	40 04	14.36	55	6.88	41 59	13.04	48	13.67	43 13	15.25	36	81.91	55 42	16.18	46	90.74	58 31
15.04	56	99.45	46 31	15.25	55	6.95	45 54	15.25	50	13.91	42 30	12.21	38	82.21	55 51	16.18	46	90.76	59 47
14.65	57	99.59	49 26	14.65	57	7.15	47 51	13.99	51	14.00	43 27	15.84	39	82.38	55 31	16.18	49	91.07	56 21
14.19	58	99.74	45 33	16.18	58	7.27	45 19	13.70	57	14.78	48 21	13.77	42	82.70	52 49	11.72	51	91.32	50 51
13.04	59	99.88	45 53	14.41	24 0	7.55	41 33	15.99	25 0	15.09	43 28	16.18	44	82.97	55 01	13.63	51	91.34	53 02
14.36	59	99.91	48 39	15.18	2	7.78	45 05	13.14	1	15.29	40 09	16.18	45	83.07	57 38	16.18	52	91.47	54 27
14.36	23 1	0.18	44 16	15.25	3	7.91	49 04	14.36	2	15.35	45 25	15.25	48	83.41	58 30	12.38	54	91.71	54 25
16.18	2	0.29	46 56	16.18	3	7.92	49 39	15.63	2	15.41	47 30	11.72	49	83.64	58 46	13.37	54	91.75	56 18
16.18	3	0.37	43 31	16.18	5	8.16	44 44	10.09*	4	15.66	46 51	13.37	50	83.67	55 57	13.77	55	91.83	53 37
16.18	3	0.40	49 59	15.25	6	8.32	45 31	14.36	5	15.76	44 21	15.25	50	83.73	53 11	12.21	55	91.90	56 35
13.53	3	0.43	42 59	16.18	6	8.33	48 56	16.18	6	15.85	43 06	15.39	51	83.82	55 48	16.18	56	91.93	52 40
15.25	5	0.59	48 42	15.04	6	8.34	40 23	16.18	6	15.93	41 17	15.25	52	84.02	53 25	15.39	59	92.31	58 09
15.39	6	0.73	49 11	15.18	8	8.56	49 20	16.18	8	16.18	40 19	16.18	53	84.08	57 27	15.04	22 0	92.47	58 00
16.18	7	0.92	49 51	15.18	9	8.64	43 17	15.39	18	17.32	41 39	15.63	54	84.21	57 42	16.18	0	92.49	54 54
14.60	8	1.04	41 40	14.92	11	8.94	48 00	12.38	18	17.43	45 43	16.18	55	84.28	59 06	15.63	0	92.54	51 30
14.86	9	1.18	43 27	14.92	11	8.95	44 41	16.18	19	17.48	40 11	15.84	55	84.39	59 13	15.54	1	92.59	54 46
16.18	10	1.21	47 46	15.99	13	9.15	48 49	15.04	20	17.58	49 26	13.77	56	84.42	58 34	15.84	2	92.78	50 38
15.39	10	1.23	41 29	15.84	13	9.19	44 50	14.50	20	17.60	47 39	14.27	56	84.46	56 12	14.36	2	92.79	57 46
13.53	10	1.26	49 21	15.84	13	9.23	42 07	13.63	20	17.62	46 59	16.18	57	84.55	54 54	13.99	7	93.12	56 52
13.77	14	1.75	49 43	16.18	14	9.27	44 01	13.30	21	17.71	46 48	15.54	57	84.57	55 28	14.86	7	93.35	54 26
15.18	14	1.80	49 05	15.63?	14	9.32	44 36	13.70	22	17.85	46 18	13.30	57	84.63	51 29	16.18	8	93.45	52 18
16.18	16	2.05	41 19	15.25	14	9.38	48 38	15.25	22	17.89	43 55	15.54	21 1	85.05	58 08	13.88	8	93.46	50 06
15.18	17	2.16	49 08	14.65	16	9.58	41 44	16.18	25	18.30	42 24	12.71	6	85.66	53 30	14.92	8	93.47	52 41
15.39	19	2.37	40 40	14.14	16	9.62	48 47	16.18	26	18.33	41 25	14.92	6	85.71	54 51	16.18	8	93.53	50 31
15.99	19	2.43	41 18	11.55	19	9.98	42 48	14.65	26	18.35	48 38	15.04	9	86.06	52 01	15.84	9	93.64	51 38
12.71	19	2.44	48 45	14.19	20	10.09	41 49	14.65	28	18.62	48 05	12.54	9	86.09	57 12	15.46	11	93.83	50 24
15.54	23	2.89	41 03	14.76	20	10.10	45 33	16.18	30	18.95	44 09	15.25	10	86.20	55 38	15.63	11	93.91	53 37
15.54	25	3.11	45 52	16.18	22	10.31	45 20	14.86	32	19.18	47 49	15.04	12	86.43	54 41	10.60	12	93.97	50 08
16.18	27	3.35	44 16	15.63	24	10.52	40 21	14.60	34	19.36	43 59	16.18	13	86.62	58 02	12.05	14	94.22	51 00
14.14	29	3.65	42 05	14.41	25	10.72	48 16	11.72	35	19.50	40 32	13.47	15	86.85	52 58	14.41	16	94.48	58 29
15.84	29	3.69	42 30	15.54	26	10.83	44 51	12.05	35	19.52	49 24	13.77	15	86.86	53 53	13.30	18	94.67	50 08
16.18	30	3.75	42 51	16.18	26	10.88	47 20	15.25	36	19.59	42 37	15.39	16	86.96	57 20	16.18	20	94.93	57 42
15.99	31	3.91	48 19	11.18	28	11.15	42 12	13.20	36	19.64	48 27	15.04	17	87.05	54 01	15.84	21	95.07	50 40
16.18	32	3.97	48 00	15.63	30	11.36	48 13	15.63	36	19.69	45 04	15.63	18	87.19	58 38	14.71	21	95.07	50 19
16.18	32	4.06	40 36	14.86	33	11.71	40 19	15.25	37	19.72	43 46	16.18	22	87.71	53 08	15.25	21	95.13	56 14
15.99	35	4.44	40 48	14.86	33	11.76	49 20	15.18	37	19.74	43 15	15.25	22	87.74	55 12	15.99	22	95.29	58 07
16.18	36	4.52	41 29	15.04	35	11.94	43 24	14.19	38	19.86	43 20	16.18	23	87.89	55 14	14.86	25	95.66	51 36
14.27	36	4.55	46 26	14.76	38	12.36	45 48	15.39	38	19.94	42 31	14.65	23	87.89	57 49	15.25	28	96.00	50 40
15.18	36	4.57	47 35	14.65	38	12.39	42 23	15.18	20 22	80.25	50 07	13.30	24	87.99	59 12	13.81	30	96.27	51 34
12.38	37	4.66	46 59	15.63	40	12.57	48 53	15.25	23	80.35	52 30	15.84	25	88.08	55 52	15.63	32	96.52	56 17
13.14	38	4.73	47 07	15.54	40	12.64	48 13	14.65	24	80.40	53 35	15.84	26	88.20	53 31	13.77	33	96.67	59 14
14.41	38	4.84	46 56	12.71	40	12.65	40 32	13.53	25	80.55	56 40	15.99	26	88.22	51 41	15.99	34	96.69	51 03
13.47	40	5.08	47 26	13.84	41	12.72	49 57	15.04	25	80.59	50 52	15.99	27	88.32	58 51	13.53	41	97.61	52 53
14.19	41	5.19	42 47	16.18	42	12.80	44 34	14.50	30	81.20	51 23	15.63	28	88.48	58 51	14.65	44	98.02	56 37
14.27	43	5.46	44 28	15.39	42	12.83	49 21	15.25	31	81.37	57 47	14.50	36	89.46	58 43	15.25	45	98.16	55 56
14.86	45	5.72	45 39	15.54	44	13.05	41 25	15.84	32	81.49	50 15	16.18	37	89.65	56 39	14.50	49	98.58	53 52

25 prec. + 68 sec. + 8′ 15″.

Area 19.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′ y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.54	22 50	98.80	51 39	16.18	23 46	5.76	51 00	15.99	25 5	15.65	52 20	15.18	20 34	81.73	8 02	14.86	21 32	89.08	9 51
15.25	51	98.82	57 37	15.39	46	5.79	57 31	15.39	7	15.96	54 17	16.18	34	81.75	1 39	15.99	34	89.27	8 50
15.04	52	98.99	56 04	15.39	49	6.10	55 40	16.18	8	16.02	55 59	16.18	36	82.03	3 42	16.18	35	89.35	2 57
10.20	55	99.36	52 27	15.84	50	6.27	58 45	16.18	9	16.18	58 32	14.92	37	82.19	4 57	15.54	35	89.43	8 53
15.25	55	99.40	58 29	15.04	51	6.42	54 26	16.18	10	16.25	52 22	14.36	39	82.44	1 03	15.84	37	89.60	9 14
16.18	55	99.43	53 54	14.92	53	6.61	53 23	16.18	10	16.34	51 40	15.04	39	82.45	7 34	15.99	37	89.67	3 03
14.86	56	99.50	52 19	14.92	54	6.71	56 44	15.63	11	16.39	52 01	16.18	40	82.52	8 49	14.14	38	89.77	9 08
15.63	58	99.78	50 33	16.18	54	6.79	52 51	13.63	11	16.45	56 59	16.18	40	82.55	9 36	14.19	38	89.82	7 19
14.65	59	99.83	51 10	16.18	55	6.91	59 00	16.18	13	16.69	53 22	15.25	40	82.57	4 10	15.04	39	89.89	7 30
16.18	23 0	0.00	53 46	14.86	56	6.95	55 58	14.41	14	16.79	55 39	14.41	44	83.00	8 51	15.04	39	89.89	2 51
15.18	1	0.10	54 55	15.04	57	7.13	54 46	15.63	15	16.91	51 09	15.18	45	83.13	9 51	13.63	42	90.30	1 02
13.47	1	0.14	54 01	16.18	59	7.35	56 37	15.54	16	17.02	53 57	15.99	46	83.32	5 01	16.18	45	90.63	8 53
13.53	1	0.15	53 54	13.44	24 1	7.67	58 53	13.95	16	17.11	53 13	14.92	48	83.53	7 54	13.37	46	90.84	6 25
16.18	2	0.25	56 41	12.54	3	7.89	50 36	14.27	18	17.28	53 29	15.04	49	83.72	1 18	15.25	47	90.95	3 51
16.18	5	0.65	55 36	11.72	7	8.43	50 58	15.99	19	17.44	51 59	11.88	50	83.80	8 16	14.19	48	91.04	4 45
15.39	5	0.68	57 22	16.18	8	8.56	55 21	15.84	19	17.45	55 25	13.88	50	83.84	7 32	14.41	49	91.12	0 42
15.25	6	0.81	59 12	16.18	10	8.73	59 50	14.92	21	17.69	57 40	14.86	51	83.96	6 15	12.21	49	91.19	4 55
14.50	7	0.90	57 46	15.99	10	8.78	50 45	15.39	22	17.86	57 25	16.18	52	84.05	4 40	14.86	50	91.26	6 24
15.25	9	1.14	51 58	16.18	14	9.33	52 49	16.18	23	17.93	59 31	15.25	54	84.28	0 22	14.06	54	91.72	8 40
15.39	9	1.15	53 16	16.18	19	9.96	59 50	16.18	24	18.01	53 57	15.18	54	84.32	3 55	15.99	54	91.83	9 14
16.18	10	1.25	51 17	15.39	21	10.10	59 12	15.63	24	18.05	56 11	11.39	55	84.39	6 06	10.58	57	92.10	4 40
15.25	12	1.54	50 51	14.27	22	10.21	52 51	15.39	25	18.15	53 39	15.04	57	84.69	5 39	16.18	58	92.27	8 42
16.18	15	1.85	54 05	14.50	22	10.22	58 02	15.54	25	18.16	55 09	15.25	58	84.76	5 48	15.54	22 0	92.57	1 06
14.60	17	2.19	54 52	12.71	22	10.24	57 27	15.54	25	18.21	54 05	14.76	59	84.87	1 21	14.50	2	92.74	9 22
15.99	18	2.23	58 32	15.25	24	10.46	57 48	14.27	26	18.34	58 08	15.84	21 0	85.05	9 21	15.04	2	92.78	9 30
15.25	18	2.31	54 58	15.18	24	10.49	53 11	15.84	28	18.57	55 04	14.60	0	85.08	2 42	15.54	4	93.06	4 39
16.18	18	2.32	55 11	14.65	24	10.52	54 42	15.25	29	18.68	52 50	14.60	0	85.09	4 11	15.99	5	93.10	9 52
16.18	19	2.40	54 23	11.01	26	10.81	58 27	14.92	30	18.73	56 10	15.54	0	85.10	7 37	15.25	5	93.18	6 03
15.25	19	2.43	53 00	15.84	28	11.01	55 09	16.18	31	18.94	59 41	16.18	4	85.50	2 53	14.19	6	93.30	1 43
14.23	21	2.58	50 31	15.99	30	11.23	59 02	15.99	32	19.01	54 02	15.54	5	85.70	3 30	15.99	7	93.43	1 19
14.55	21	2.59	59 50	12.87	30	11.31	56 44	14.76	32	19.07	56 40	15.39	7	85.94	0 30	12.87	11	93.91	4 52
14.50	23	2.83	59 22	16.18	33	11.67	53 53	15.04	32	19.10	54 38	15.84	8	86.06	9 25	14.06	12	94.03	5 08
14.41	23	2.84	58 19	14.86	34	11.71	53 02	14.65	33	19.13	54 53	14.27	10	86.24	1 39	16.18	13	94.14	8 07
16.18	23	2.92	50 52	15.39	34	11.73	59 00	15.54	37	19.72	52 43	16.18	14	86.83	5 35	11.88	15	94.43	4 33
14.60	23	2.92	50 13	15.84	34	11.74	50 31	15.84	37	19.72	59 39	16.18	15	86.91	2 06	15.99	16	94.46	3 33
15.04	24	2.99	51 31	15.39	37	12.12	59 49	15.63	39	19.89	51 04	15.25	18	87.29	7 36	14.19	17	94.61	7 14
14.92	26	3.26	55 39	16.18	38	12.32	55 18	14.27	39	19.94	57 40	16.18	18	87.32	0 43	15.18	17	94.61	5 56
11.02	29	3.59	59 51	16.18	38	12.33	54 03	14.50	40	19.98	58 50	14.65	19	87.45	1 55	13.70	19	94.84	6 57
15.18	29	3.60	52 19	15.32	39	12.35	50 08	13.53	20 21	80.14	5 31	15.18	20	87.60	7 33	14.65	20	95.03	9 06
13.44	32	3.95	56 05	15.99	45	13.21	51 02	16.18	22	80.34	9 56	15.04	20	87.60	5 53	15.04	24	95.58	4 15
13.60	32	3.99	51 07	14.76	49	13.61	53 36	14.19	23	80.46	1 36	15.39	21	87.61	1 47	16.18	26	95.72	2 01
14.92	33	4.13	52 43	11.39	52	14.05	57 53	13.37	23	80.48	5 22	15.04	22	87.78	1 41	14.92	28	96.08	2 19
13.04	34	4.21	52 29	14.36	54	14.34	57 56	16.18	24	80.57	2 23	16.18	23	87.90	3 39	16.18	29	96.09	9 08
15.54	34	4.28	58 21	14.60	56	14.53	57 09	15.25	26	80.81	3 17	12.71	27	88.42	9 42	14.76	29	96.11	2 41
13.99	34	4.30	58 04	14.92	56	14.60	58 39	14.06	30	81.27	5 44	14.19	28	88.47	3 26	14.86	30	96.22	5 47
14.92	38	4.70	52 30	14.86	58	14.77	56 20	15.18	31	81.42	0 30	14.14	28	88.58	0 33	15.04	32	96.53	8 31
15.39	39	4.84	56 45	13.81	59	14.89	57 47	15.63?	32	81.48	9 15	14.19	29	88.62	3 05	15.63	33	96.68	5 02
13.14	40	4.99	55 53	15.25	25 0	15.07	55 35	15.99	32	81.54	0 38	15.04	30	88.75	4 04	15.25	35	96.83	4 20
14.86	41	5.18	59 17	16.18	2	15.28	54 09	14.19	32	81.54	9 41	16.18	31	88.88	0 21	14.86	37	97.11	2 53
13.04	43	5.34	55 55	16.18	3	15.42	52 52	15.04	33	81.71	1 15	16.18	32	89.05	7 59	14.14	37	97.12	4 12

25 prec. + 68 sec. + 8′ 15″.

601—650				651—700				701—750				751—800				801—850			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.25	22 37	97.18	4 00	13.47	23 40	4.98	7 32	14.86	24 48	13.41	8 38	14.65	20 19	80.04	11 46	13.37	21 14	86.79	15 44
15.63	40	97.44	4 25	15.99	40	5.03	0 50	16.18	48	13.43	6 23	15.18	20	80.19	18 36	14.92	14	86.80	13 27
15.18	40	97.50	4 19	12.54	40	5.04	6 24	14.06	49	13.58	3 40	11.72	22	80.38	12 24	12.38	16	87.08	17 49
15.63	41	97.56	0 09	16.18	41	5.09	2 36	15.90	49	13.64	9 51	15.25	23	80.52	14 43	15.25	16	87.11	10 03
15.73	42	97.76	9 59	13.60	43	5.36	6 44	14.92	50	13.73	7 56	12.97	26	80.89	10 05	15.84	18	87.37	15 02
11.55	43	97.92	0 12	13.37	45	5.62	4 45	16.18	50	13.78	4 50	15.25	28	81.08	12 38	15.99	18	87.38	13 21
14.27	44	97.97	4 51	13.88	46	5.72	5 41	15.39	51	13.80	5 53	15.04	28	81.10	16 13	12.54	18	87.41	11 49
15.25	45	98.08	6 54	15.63	46	5.76	4 53	16.18	52	13.92	4 14	12.38	28	81.17	15 35	14.14	19	87.42	11 42
15.63	45	98.14	4 22	15.99	49	6.14	3 14	13.04	52	13.98	6 21	12.05	29	81.23	17 16	15.04	19	87.49	11 02
14.86	45	98.15	8 02	13.47	49	6.15	5 51	15.99	53	14.05	5 22	15.25	32	81.65	16 38	15.84	20	87.61	19 14
15.99	47	98.38	5 23	13.44	52	6.45	6 31	13.70	55	14.37	3 26	13.53	34	81.90	19 29	13.88	21	87.66	17 24
14.86	48	98.55	2 25	15.63	53	6.60	8 14	15.99	56	14.51	1 51	16.18	34	81.91	13 28	15.84	23	87.93	17 01
14.60	49	98.58	7 35	15.25	54	6.70	6 42	15.54	56	14.52	1 31	15.25	35	82.01	19 51	16.18	23	88.02	12 52
12.38	50	98.74	5 37	15.18	55	6.82	0 00	15.39	57	14.55	8 44	14.86	36	82.18	14 32	12.87	25	88.19	15 19
12.71	54	99.22	5 22	11.72	56	6.99	0 55	16.18	59	14.81	7 10	15.25	37	82.23	18 05	14.92	25	88.25	13 52
15.54	56	99.44	1 49	13.77	58	7.28	0 51	15.25	25 0	14.90	8 13	15.99	38	82.42	12 46	14.86	26	88.27	12 44
12.71	56	99.57	5 33	15.04	24 0	7.43	6 24	14.14	0	15.01	2 03	14.36	39	82.56	11 52	16.18	26	88.29	17 04
12.71	23 0	99.96	6 53	15.18	1	7.66	7 31	15.18	2	15.26	5 55	16.18	40	82.59	15 00	15.25	26	88.33	16 41
14.86	0	0.05	2 32	13.04	3	7.87	4 42	16.18	3	15.34	6 47	16.18	40	82.63	19 41	14.76	28	88.57	13 20
14.41	1	0.08	6 31	16.18	4	7.95	0 58	15.54	3	15.37	4 44	14.50	41	82.78	19 36	15.18	29	88.70	18 40
8.95*	1	0.17	1 21	14.41	4	8.02	3 51	15.99	4	15.42	7 46	16.18	41	82.79	10 53	14.92	30	88.81	13 48
15.99	3	0.35	7 20	15.84	7	8.32	3 12	13.20	4	15.44	1 47	16.18	41	82.81	11 14	16.18	31	89.00	16 08
12.54	5	0.60	8 13	14.92	11	8.90	6 03	14.19	4	15.45	0 34	15.25	45	83.27	16 56	15.99	32	89.03	15 29
15.99	7	0.83	9 30	13.70	12	8.96	5 56	15.39	8	15.98	7 32	12.21	50	83.82	13 28	14.86	32	89.05	12 24
12.87	8	1.05	8 27	14.41	14	9.23	6 36	15.99	9	16.08	9 29	15.25	51	83.99	18 55	16.18	33	89.19	15 33
12.97	9	1.14	9 28	16.18	14	9.28	0 31	15.18	9	16.12	9 20	12.71	52	84.18	14 53	15.54	33	89.22	10 39
15.04	9	1.17	3 39	12.05	15	9.33	8 12	15.04	11	16.39	7 43	15.04	53	84.20	15 52	15.39	35	89.47	12 23
12.87	12	1.44	2 24	15.04	15	9.37	6 40	16.18	14	16.69	0 32	14.92	53	84.20	12 03	15.04	37	89.72	18 58
13.77	12	1.53	2 42	16.18	16	9.54	7 50	16.18	15	16.78	0 53	14.60	53	84.23	17 35	14.36	38	89.76	13 53
13.04	12	1.56	1 13	16.18	19	9.91	7 53	15.54	16	16.90	8 14	14.02	53	84.24	10 29	15.39	38	89.85	14 31
15.63	14	1.75	6 04	15.04	20	9.96	9 35	15.25	17	17.10	8 14	13.70	54	84.31	12 22	10.85	38	89.86	10 11
12.87	14	1.76	9 35	14.36	20	10.02	8 19	16.18	17	17.13	8 48	15.39	54	84.33	18 58	13.70	39	89.99	17 10
14.65	15	1.87	8 08	16.18	22	10.23	5 07	14.71	19	17.37	9 42	13.20	54	84.43	13 44	15.04	40	90.09	16 03
16.18	17	2.12	5 36	16.18	24	10.47	4 07	15.04	20	17.45	8 59	15.99	55	84.46	17 29	15.04	42	90.30	19 28
12.21	18	2.22	7 58	13.70	25	10.61	8 44	15.99	21	17.60	5 08	16.18	55	84.51	10 17	15.04	43	90.48	18 38
16.18	19	2.32	5 27	14.50	25	10.65	7 23	13.04	23	17.80	6 02	15.25	57	84.68	10 31	15.04	44	90.57	18 13
15.18	19	2.34	9 43	16.18	26	10.66	7 59	14.92	25	18.14	8 10	14.92	59	84.99	16 53	14.36	45	90.73	15 51
15.04	20	2.46	4 35	15.84	28	10.95	8 41	14.92	27	18.28	8 15	15.04	21 2	85.30	18 53	15.99	47	90.90	13 43
12.87	24	3.01	6 18	13.88	28	10.96	7 15	15.25	29	18.64	0 11	16.18	2	85.32	10 21	13.77	47	90.92	13 51
15.18	25	3.11	3 53	16.18	34	11.69	3 17	14.76	30	18.75	8 34	14.76	3	85.47	10 09	16.18	47	90.97	19 45
15.18	28	3.46	0 41	14.14	38	12.17	1 15	14.60	31	18.80	5 01	12.38	4	85.66	17 46	15.63	48	91.13	12 35
14.86	29	3.65	8 03	16.18	38	12.20	5 37	14.41	31	18.83	4 47	16.18	5	85.72	14 19	16.18	49	91.15	11 37
15.84	34	4.20	5 12	15.84	38	12.24	4 38	12.87	31	18.85	3 53	14.19	6	85.91	18 38	15.54	49	91.16	15 26
13.60	34	4.29	5 51	14.76	40	12.52	4 25	15.84	32	18.95	7 20	14.50	6	85.92	19 48	16.18	50	91.34	11 19
14.92	35	4.36	8 28	16.18	41	12.54	9 59	15.25	33	19.10	7 51	9.55	7	85.98	16 00	14.76	51	91.47	13 55
14.92	37	4.67	8 50	16.18	42	12.66	3 24	14.60	33	19.10	1 18	15.39	9	86.18	15 38	16.18	53	91.65	16 41
16.18	38	4.68	3 41	15.25	44	12.91	2 29	13.63	34	19.24	4 34	14.41	9	86.27	17 21	15.25	53	91.72	13 41
15.54	38	4.72	1 04	16.18	44	12.95	6 12	14.92	37	19.56	3 08	10.97	9	86.28	10 16	13.70	55	91.91	19 00
15.25	38	4.79	4 00	16.18	45	13.04	6 55	13.99	38	19.71	6 29	13.84	13	86.69	10 32	14.60	55	91.97	17 28
13.81	39	4.85	8 52	15.25	46	13.21	9 23	14.50	39	19.83	7 42	14.06	13	86.72	15 53	13.20	55	91.98	11 45

25 prec. + 67 sec. + 8′ 15″.

851—900				901—950				951—1000				1001—1050				1051—1086			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.18	21 56	92.02	12 26	12.87	22 54	99.20	16 18	15.84	23 58	7.14	18 21	16.18	24 39	12.30	17 21	15.99	25 10	16.09	11 16
15.32	57	92.14	10 21	13.11	54	99.32	10 08	12.21	58	7.17	10 14	15.54	39	12.33	13 34	15.25	10	16.17	14 29
15.63	57	92.16	14 56	13.99	23 0	99.97	15 57	15.39	24 0	7.38	19 13	13.30	40	12.43	13 27	12.54	11	16.23	15 34
13.70	22 0	92.61	17 52	15.18	0	99.99	16 47	15.84	0	7.40	16 14	15.90	40	12.46	10 17	15.63	12	16.40	11 05
16.18	2	92.79	13 31	16.18	2	0.20	15 24	16.18	3	7.80	19 53	16.18	41	12.49	17 34	16.18	13	16.53	17 59
13.70	4	93.09	14 22	13.47	3	0.37	12 30	15.84	4	8.00	19 38	15.54	41	12.53	15 31	16.18	14	16.59	18 09
15.39	5	93.20	19 52	15.25	3	0.37	16 44	14.92	6	8.17	10 51	16.18	42	12.60	18 08	13.99	14	16.60	12 50
16.18	7	93.46	19 31	15.99	3	0.38	15 33	15.84	7	8.29	15 17	11.72	42	12.63	10 39	16.18	14	16.64	16 33
14.41	8	93.57	17 54	15.63	3	0.42	19 53	14.86	7	8.33	17 47	16.18	43	12.74	12 34	15.54	14	16.68	13 12
15.63	9	93.62	17 39	15.99	4	0.45	13 25	14.76	8	8.44	11 09	14.60	43	12.81	17 53	15.39	16	16.85	12 47
15.84	12	94.04	10 46	12.21	4	0.47	16 06	14.41	9	8.60	10 00	15.25	45	13.08	18 51	14.92	17	17.01	13 59
13.37	17	94.67	18 04	13.95	5	0.66	17 02	16.18	11	8.79	15 52	15.04	46	13.12	19 17	14.65	18	17.07	18 52
16.18	17	94.72	11 27	15.63	10	1.19	18 58	16.18	13	9.01	12 11	15.25	47	13.23	10 42	13.37	19	17.21	19 43
16.18	18	94.78	17 47	15.18	11	1.35	14 43	13.81	14	9.16	14 04	15.04	47	13.24	11 00	14.06	20	17.33	13 13
16.18	18	94.81	17 12	13.81	11	1.40	15 01	9.95	16	9.39	16 54	16.18	47	13.26	17 00	15.39	20	17.35	16 42
14.41	18	94.82	16 30	15.04	12	1.46	10 20	14.14	16	9.42	12 50	16.18	47	13.33	12 23	15.54	21	17.48	17 45
14.50	18	94.82	16 11	14.60	12	1.49	13 01	15.63	17	9.52	12 40	15.39	49	13.52	12 41	15.30	21	17.48	15 37
14.92	19	94.88	10 38	12.38	12	1.51	19 59	15.99	17	9.53	16 22	15.39	49	13.53	18 02	14.41	24	17.81	12 10
15.04	21	95.20	12 54	14.65	13	1.63	14 54	13.95	18	9.65	15 30	16.18	49	13.55	18 48	15.25	24	17.88	16 59
13.20	22	95.23	19 49	16.18	17	2.11	11 30	14.41	18	9.73	10 56	15.63	50	13.60	13 53	15.84	25	17.96	17 19
13.04	22	95.31	18 55	16.18	24	2.92	19 52	14.50	19	9.80	16 45	15.84	50	13.64	16 57	14.92	26	18.07	19 00
14.27	23	95.43	18 16	14.41	24	3.02	16 33	16.18	20	9.88	19 56	16.18	51	13.78	18 22	16.18	27	18.27	12 58
15.99	23	95.45	14 42	15.18	25	3.11	16 51	15.84	20	9.89	17 21	16.18	52	13.84	15 49	15.18	28	18.31	14 45
14.76	26	95.76	16 12	15.84	26	3.16	18 06	15.99	21	10.09	17 54	16.18	52	13.96	15 58	14.92	28	18.41	12 43
15.99	26	95.81	19 52	9.97	26	3.20	17 48	16.18	22	10.13	18 37	15.54	53	13.97	18 28	16.18	30	18.57	19 33
15.25	26	95.85	19 35	14.06	26	3.21	13 02	12.05	22	10.20	11 46	15.25	53	14.04	12 20	15.04	31	18.73	12 02
16.18	27	95.87	13 25	13.04	28	3.43	19 19	15.84	23	10.32	17 39	14.60	54	14.13	16 52	15.84	31	18.78	10 59
16.18	29	96.12	18 23	15.04	28	3.48	16 24	15.25	24	10.43	10 51	15.25	55	14.30	16 18	14.65	32	18.82	12 44
13.60	29	96.18	13 12	12.21	31	3.80	13 48	16.18	24	10.47	11 00	14.19	55	14.31	11 03	15.25	32	18.87	11 44
13.77	30	96.23	12 05	14.14	31	3.89	19 54	16.18	25	10.55	16 24	14.71	56	14.41	10 12	15.04	32	18.88	18 24
13.81	31	96.43	13 37	14.19	31	3.89	12 28	13.04	27	10.83	19 54	15.54	57	14.52	17 00	15.04	32	18.89	11 09
14.60	32	96.49	19 29	14.86	33	4.04	17 43	14.27	28	10.86	19 07	14.76	57	14.55	14 50	15.04	33	19.01	10 28
12.71	33	96.71	19 42	11.88	34	4.20	16 08	12.71	28	10.98	10 55	16.18	58	14.65	12 49	13.99	34	19.04	18 48
16.18	35	96.85	10 22	16.18	37	4.54	17 37	15.54	29	11.10	18 04	14.06	59	14.73	13 17	12.97	34	19.15	13 05
16.18	36	96.99	19 41	14.60	39	4.79	13 07	16.18	30	11.11	16 50	15.04	59	14.76	11 08	16.18	38	19.65	14 06
15.18	39	97.39	16 55	15.63	39	4.87	18 23	11.08	30	11.19	13 15	15.99	59	14.82	14 08	15.25	40	19.82	12 41
15.99	39	97.44	12 32	16.18	46	5.73	11 28	13.63	31	11.30	10 24	15.84	25 1	14.97	11 31				
11.72	40	97.46	19 08	16.18	46	5.75	10 45	13.20	32	11.42	14 40	15.99	1	15.01	18 49				
15.63	40	97.50	18 26	14.92	47	5.85	16 10	16.18	32	11.44	15 33	14.27	1	15.04	17 38				
15.25	42	97.81	12 42	9.79*	48	5.91	14 55	16.18	32	11.48	19 40	16.18	1	15.05	12 49				
16.18	43	97.84	13 57	16.18	48	5.95	13 42	13.88	33	11.52	16 33	15.84	2	15.20	15 32				
14.06	45	98.12	17 39	15.25	49	6.09	12 03	15.84	33	11.57	14 00	16.18	3	15.28	12 30				
14.76	45	98.19	19 48	15.39	50	6.16	13 38	13.14	33	11.59	16 10	16.18	3	15.31	15 52				
14.86	46	98.31	14 41	15.18	51	6.32	17 00	16.18	34	11.64	15 48	16.18	4	15.38	14 13				
14.27	46	98.32	17 53	15.39	54	6.64	14 31	16.18	34	11.65	15 24	15.18	4	15.39	18 11				
15.25	48	98.45	12 55	15.54	55	6.86	16 20	15.25	35	11.76	15 19	16.18	6	15.62	10 02				
14.41	49	98.61	13 21	15.54	56	6.88	13 43	15.39	35	11.82	13 56	15.04	7	15.75	13 54				
15.54	49	98.62	14 44	15.84	56	6.90	16 13	14.50	35	11.82	13 51	14.65	7	15.79	12 43				
12.87	49	98.68	10 39	15.39	56	6.93	11 51	15.63	37	12.00	17 45	15.04	8	15.94	13 47				
15.99	52	99.03	16 31	15.18	56	6.97	12 13	16.18	38	12.14	11 34	14.92	9	15.99	19 48				

25 prec. + 68 sec. + 8′ 15″.

Area 20. Centre for 1900: $0^h\ 40^m + 45° 20'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.05	38 27	83.51	2 57	14.27	40 19	3.40	7 55	15.87	41 53	20.03	6 20	14.85	40 4	0.77	19 10	15.87	41 28	15.40	16 51
14.17	33	84.62	4 58	14.85	20	3.56	0 38	14.38	55	20.33	5 25	15.87	5	0.87	17 57	14.73	29	15.64	14 57
14.85	36	85.19	7 44	14.85	21	3.64	5 27	12.32	42 0	21.11	3 35	14.73	5	0.89	17 16	13.09	29	15.73	12 37
15.05	39	85.72	3 03	14.85	21	3.66	2 55	14.85	0	21.21	6 57	15.39	9	1.53	19 36	14.85	32	16.15	14 32
15.18	41	86.01	4 31	12.32	23	4.04	9 09	12.61	1	21.30	6 49	15.05	11	1.98	15 04	14.67	33	16.32	18 22
11.63	50	87.70	7 20	14.17	23	4.13	8 12	15.87	1	21.32	8 16	15.53	13	2.35	11 15	15.87	36	16.84	18 27
15.87	50	87.70	0 20	13.86	24	4.32	7 26	14.27	3	21.64	6 40	15.87	15	2.68	16 53	15.87	36	16.94	17 04
13.09	52	87.92	4 21	14.85	25	4.46	2 32	15.87	38 26	83.52	10 16	15.87	16	2.75	19 09	12.73	37	17.07	19 46
15.68	53	88.11	1 00	12.32	26	4.60	0 55	14.11	26	83.54	19 39	14.98	17	3.05	10 45	15.87	38	17.21	10 07
15.87	55	88.48	0 50	12.14	27	4.71	6 40	15.87	31	84.34	14 10	14.22	18	3.15	10 04	14.27	38	17.28	18 54
14.98	57	88.81	3 59	14.73	28	4.85	5 31	14.11	32	84.54	13 30	14.38	19	3.29	14 07	14.17	38	17.30	17 08
15.87	57	88.89	9 00	15.53	28	4.94	3 06	15.87	38	85.53	15 32	13.44	20	3.48	11 04	14.11	40	17.69	19 25
15.32	39 1	89.51	1 18	12.73	29	5.15	9 56	12.43	38	85.63	10 11	11.01	26	4.66	15 23	15.53	41	17.73	17 41
13.86	3	89.92	8 32	15.32	30	5.37	9 32	13.53	41	86.12	19 17	14.98	31	5.46	15 59	14.85	42	18.01	19 34
15.25	5	90.24	9 46	12.14	33	5.86	9 50	14.85	41	86.14	17 15	13.76	32	5.59	15 34	15.87	46	18.63	16 56
14.98	6	90.39	1 32	15.87	34	5.97	3 28	13.91	43	86.41	18 58	14.92	33	5.73	19 38	15.87	47	18.78	13 56
15.87	9	91.02	3 17	15.87	37	6.51	0 07	14.98	45	86.77	10 48	15.87	33	5.80	15 32	12.69	48	19.07	15 21
14.55	10	91.20	6 33	14.27	38	6.76	3 12	14.27	45	86.86	13 50	12.61	33	5.86	16 49	13.76	50	19.41	18 59
12.88	12	91.50	8 56	15.87	45	7.93	3 12	11.97	46	87.06	10 05	15.53	36	6.39	14 08	15.87	52	19.80	10 12
15.32	17	92.42	9 10	15.53	45	7.96	1 34	15.53	49	87.43	12 05	15.87	37	6.57	19 31	13.53	54	20.07	17 25
15.39	19	92.69	1 33	15.87	46	8.06	8 26	15.53	50	87.59	12 49	15.87	41	7.30	14 19	15.87	55	20.30	16 06
14.73	20	92.95	3 25	11.63	47	8.24	9 00	15.87	52	88.03	11 26	15.87	42	7.43	19 16	14.44	56	20.35	17 22
14.44	21	93.05	0 17	15.87	48	8.43	9 52	15.87	54	88.47	19 46	12.69	43	7.64	13 52	12.50	59	20.88	18 10
13.76	25	93.82	9 43	15.53	49	8.64	5 39	12.88	57	88.83	18 24	15.87	45	7.96	16 07	14.55	42 0	21.08	19 27
14.98	29	94.61	3 48	15.87	53	9.30	2 29	15.87	57	88.91	16 51	13.67	46	8.13	19 22	14.44	0	21.14	17 10
15.05	33	95.21	1 26	15.05	58	10.27	3 32	13.13	58	89.10	10 08	15.87	48	8.39	15 17	14.27	1	21.27	12 02
15.18	34	95.32	6 34	15.87	59	10.35	7 24	14.73	59	89.27	13 00	15.87	49	8.64	12 19	14.44	2	21.51	19 17
12.32	35	95.59	6 20	12.61	59	10.44	6 32	15.87	39 0	89.47	19 30	14.85	52	9.14	16 37	14.85	3	21.58	11 20
13.91	40	96.39	4 28	14.38	41 0	10.63	6 28	14.17	9	91.00	13 59	15.05	53	9.31	14 02	14.85	4	21.76	15 33
15.39	51	98.40	5 27	15.87	4	11.34	7 07	11.30	12	91.62	17 01	15.32	56	9.84	11 19	13.09	7	22.29	16 40
15.87	52	98.52	3 38	15.53	6	11.61	3 27	15.87	15	92.10	11 58	12.77	57	9.97	11 09	12.14	10	22.92	16 54
14.01	53	98.81	8 47	14.85	9	12.23	1 38	15.68	17	92.42	19 09	12.96	58	10.25	17 37	15.87	38 26	83.47	22 33
13.09	55	99.07	5 15	15.87	12	12.64	8 31	11.01	18	92.52	12 08	14.98	58	10.26	19 46	15.18	27	83.75	22 51
14.55	55	99.12	0 25	15.05	13	12.93	0 04	13.17	20	92.98	13 58	15.87	59	10.33	16 16	13.76	29	84.04	22 03
15.68	55	99.17	9 24	15.05	13	12.94	9 00	15.87	26	94.07	19 44	14.73	41 0	10.54	19 10	15.39	34	84.95	22 44
11.80	58	99.65	8 38	14.85	16	13.50	1 01	15.05	31	94.91	11 52	11.47	1	10.79	18 04	14.11	36	85.22	27 19
15.39	40 0	0.08	7 45	13.44	18	13.78	2 37	14.85	35	95.60	11 29	15.87	3	11.09	14 53	15.87	38	85.61	21 27
14.67	2	0.32	5 50	14.67	18	13.85	7 26	14.73	40	96.57	16 47	15.87	3	11.10	14 18	12.50	39	85.81	28 49
9.79	2	0.34	3 59	14.85	19	14.00	8 56	11.72	42	96.75	14 58	13.09	6	11.64	13 08	14.55	40	85.96	21 17
14.85	4	0.61	8 38	14.85	27	15.32	6 46	14.38	45	97.44	13 13	15.05	7	11.73	14 50	14.67	43	86.55	28 48
14.67	4	0.75	6 44	14.55	29	15.68	0 04	15.87	46	97.46	18 03	14.55	7	11.75	14 21	15.32	44	86.63	27 16
15.05	9	1.65	1 17	14.67	30	15.87	5 46	13.86	47	97.73	10 01	15.68	17	13.53	19 53	15.87	44	86.67	29 01
10.77	10	1.76	2 26	15.87	31	16.12	9 35	15.18	49	98.05	18 43	14.44	18	13.74	18 49	15.32	45	86.83	26 27
14.73	12	2.06	4 41	15.39	33	16.42	1 15	15.32	51	98.37	15 55	14.98	22	14.39	14 27	14.98	48	87.30	20 58
15.05	12	2.06	5 26	15.68	34	16.51	8 11	15.87	52	98.57	16 52	12.69	22	14.48	11 42	9.66	50	87.67	22 20
14.38	13	2.24	7 34	11.80	36	16.92	1 34	15.87	54	99.01	18 12	14.85	23	14.62	15 00	15.87	50	87.80	27 19
13.91	13	2.24	6 58	14.85	40	17.63	4 18	15.53	56	99.35	16 33	15.87	24	14.82	14 04	14.11	54	88.34	21 19
14.85	14	2.46	7 52	15.68	41	17.78	9 52	12.73	57	99.48	19 38	13.76	24	14.85	13 26	15.32	55	88.63	28 50
15.53	16	2.73	9 54	14.44	42	18.03	2 45	15.87	59	99.88	12 41	12.69	24	14.85	12 00	14.98	57	89.02	26 13
14.85	17	2.96	2 16	13.67	46	18.69	0 41	14.98	40 3	0.50	14 26	15.05	25	14.90	18 49	14.98	58	89.06	21 10

25 prec. + 83 sec. + 8′ 14″.

Area 20.

251—300				301—350				351—400				401—450				451—480			
Int. magn.	α	x	y+20′	Int. magn.	α	x	y⊥20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.32	38 58	89.07	21 04	15.68	40 28	4.95	25 18	11.63	42 6	22.03	25 14	15.39	39 49	98.03	35 56	14.55	41 25	14.95	36 36
15.68	58	89.20	24 31	15.87	28	4.99	26 22	14.44	8	22.52	24 54	13.67	50	98.25	30 45	15.53	28	15.40	32 29
15.87	59	89.30	27 13	12.50	32	5.69	24 35	14.85	38 31	84.41	31 12	11.47	51	98.41	36 16	11.80	33	16.19	39 58
12.50	39 2	89.86	28 19	15.87	34	5.88	25 42	14.27	32	84.63	34 46	14.73	57	99.45	35 37	15.05	34	16.50	39 59
13.76	4	90.26	20 41	15.87	34	5.89	22 47	14.11	35	85.15	34 36	14.01	57	99.54	39 15	15.87	37	17.05	34 19
14.85	9	91.09	26 36	14.67	39	6.84	29 57	11.04	42	86.27	33 00	14.17	58	99.71	33 10	9.65	39	17.27	38 13
15.39	9	91.10	20 29	12.32	40	6.93	20 40	14.38	42	86.33	32 21	11.10	40 0	0.00	37 01	15.87	41	17.75	33 49
14.01	11	91.33	24 47	14.38	44	7.65	25 46	14.67	43	86.52	38 51	15.87	3	0.52	38 58	13.86	41	17.75	36 56
12.32	12	91.63	21 44	14.98	47	8.24	26 05	14.27	43	86.60	38 21	12.88	10	1.75	31 56	12.80	43	18.00	32 01
15.18	13	91.74	25 49	12.50	50	8.69	26 43	15.87	46	87.10	38 53	14.73	12	2.02	39 54	15.87	43	18.04	33 58
15.39	14	91.84	22 16	15.39	50	8.73	28 58	11.30	50	87.66	31 20	15.87	13	2.31	36 41	15.53	46	18.48	39 53
14.98	16	92.27	22 46	14.73	54	9.44	28 33	15.53	50	87.71	39 22	13.17	15	2.60	34 20	14.73	47	18.75	30 59
15.87	17	92.50	29 07	12.88	54	9.45	21 54	15.87	51	87.94	37 37	14.73	16	2.86	38 15	13.86	48	18.91	35 18
13.30	18	92.59	25 24	14.98	55	9.57	25 30	15.05	56	88.78	30 14	14.85	17	3.00	35 30	14.73	48	18.94	32 48
15.39	19	92.76	29 27	12.50	58	10.22	25 42	14.38	56	88.84	36 06	15.18	19	3.38	37 53	14.17	48	18.95	32 44
15.87	21	93.21	27 08	14.17	41 0	10.45	20 13	15.87	57	89.01	37 43	14.85	20	3.50	32 19	14.98	50	19.20	39 44
14.85	23	93.44	20 57	15.68	2	10.82	24 52	14.11	57	89.02	36 09	13.76	23	3.99	31 59	15.11	52	19.64	30 21
15.53	25	93.84	28 46	14.98	6	11.64	27 39	14.85	57	89.04	31 51	12.88	23	4.04	39 01	15.68	53	19.73	32 48
14.98	27	94.25	25 02	15.53	7	11.70	28 59	11.63	59	89.30	34 39	13.91	24	4.12	37 02	13.86	57	20.40	37 31
15.87	28	94.42	27 07	13.53	11	12.47	29 46	14.55	39 0	89.46	33 19	10.42	24	4.16	31 43	14.55	57	20.44	33 29
15.87	29	94.56	20 54	14.55	12	12.55	23 31	15.05	1	89.63	38 31	15.18	27	4.69	36 04	15.87	58	20.66	32 58
13.30	30	94.79	20 36	15.05	12	12.57	26 14	14.27	1	89.70	34 11	14.85	27	4.78	38 53	13.86	42 0	21.02	36 28
15.87	31	94.88	29 07	14.98	12	12.62	20 09	13.30	2	89.81	37 10	15.05	30	5.33	34 38	14.73	0	21.06	38 28
14.27	32	95.13	27 33	15.87	12	12.67	28 42	15.39	6	90.49	35 40	15.39	35	6.18	39 56	15.87	2	21.30	36 26
14.38	33	95.32	27 44	15.39	13	12.82	22 40	15.87	6	90.52	30 43	14.01	39	6.89	33 59	15.87	4	21.67	36 35
13.91	35	95.56	28 14	15.18	14	12.93	27 15	14.27	7	90.73	30 43	12.14	40	6.98	34 01	15.87	5	21.92	38 54
15.87	37	95.94	23 51	14.67	16	13.33	29 16	14.49	7	90.79	30 26	13.62	41	7.16	35 22	13.62	5	21.92	34 00
12.88	38	96.23	23 42	15.87	17	13.47	28 40	13.39	9	91.14	35 38	15.87	42	7.31	33 58	15.87	7	22.28	30 58
12.80	42	96.86	27 17	15.87	17	13.49	23 37	15.68?	10	91.24	31 16	15.87	42	7.44	37 21	15.87	10	22.74	37 59
15.68	45	97.36	26 30	15.87	18	13.72	29 30	14.01	11	91.36	37 04	15.87	48	8.41	35 06	13.86	11	22.88	36 16
15.53	46	97.53	22 34	14.98	19	13.80	21 42	14.85	11	91.36	33 55	10.68	48	8.48	33 42				
15.87	48	97.95	25 41	15.39	22	14.44	24 23	14.67	12	91.53	35 10	15.18	49	8.66	33 22				
15.68	49	98.05	21 26	15.53	26	15.11	29 07	14.73	12	91.61	38 55	15.18	51	8.86	33 18				
15.68	51	98.38	20 23	14.73	27	15.20	20 03	13.39	14	92.02	35 25	14.38	51	8.94	33 44				
14.85	52	98.57	25 56	15.68	30	15.85	22 15	15.32	16	92.37	32 35	11.63	52	9.15	30 04				
15.87	54	98.93	20 48	13.76	33	16.29	27 35	11.80	20	93.09	32 47	15.87	54	9.54	35 07				
14.85	55	99.20	28 33	14.33	33	16.40	29 33	15.18	21	93.13	39 06	11.63	55	9.63	32 24				
14.98	56	99.28	24 58	12.77	35	16.69	21 31	15.68	22	93.43	30 55	14.85	55	9.63	35 40				
15.87	40 3	0.56	28 19	13.44	36	16.80	24 51	14.01	23	93.49	34 58	14.11	59	10.37	33 47				
12.88	4	0.77	29 26	10.91	38	17.24	20 39	14.38	27	94.22	38 00	14.85	41 0	10.50	31 27				
10.96	5	0.85	24 05	15.87	39	17.32	24 19	15.05	28	94.48	30 26	15.87	0	10.51	33 17				
15.87	5	0.89	22 55	14.85	42	17.86	21 24	15.32	29	94.52	31 47	15.53	2	10.78	38 27				
13.17	8	1.44	27 09	14.67	42	17.92	22 29	15.87	35	95.67	36 16	11.80	3	11.03	34 31				
15.68	15	2.67	27 58	15.87	43	18.08	28 27	11.97	38	96.11	36 53	15.87	9	12.15	37 55				
12.58	17	3.03	20 26	14.55	46	18.55	20 45	12.88	39	96.31	38 47	15.87	11	12.44	32 44				
14.55	18	3.22	22 43	14.98	48	18.94	20 58	15.68	40	96.57	31 01	9.97	15	13.16	38 04				
8.63*	19	3.37	20 56	14.67	49	19.15	22 37	14.67	45	97.31	35 06	12.43	19	13.91	39 46				
13.30	25	4.39	27 27	15.87	50	19.30	21 58	14.27	46	97.46	33 54	13.22	22	14.36	30 38				
13.86	26	4.55	24 38	14.98	59	20.94	24 30	12.50	46	97.46	36 11	14.27	23	14.52	33 05				
15.87	27	4.80	29 44	14.73	42 5	21.87	20 13	13.17	48	97.90	31 32	14.73	23	14.52	34 03				

25 prec. + 83 sec. + 8′ 14″.

Area 21. Centre for 1900: $1^{h}\ 36^{m} + 45^{\circ}\ 0'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	a	x	y+60′	Int. magn.	a	x	y+60′	Int. magn.	a	x	y+60′	Int. magn.	a	x	y+60′	Int. magn.	a	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.35	33 57	78.16	42 41	15.67	34 59	89.13	42 56	16.16	35 56	99.24	48 18	15.67	36 48	8.58	46 47	15.41	34 2	79.08	52 41
16.16	58	78.34	48 06	16.16	59	89.14	48 38	15.22	56	99.26	43 17	15.17	50	8.90	41 39	15.22	2	79.09	55 04
16.16	34 1	78.87	44 08	14.12	35 1	89.60	46 05	15.07	56	99.28	45 56	14.75	51	9.13	44 57	14.12	3	79.30	56 57
15.17	1	78.90	46 40	14.20	1	89.61	47 11	15.07	57	99.56	46 50	14.62	52	9.14	41 01	15.36	3	79.32	50 15
15.17	4	79.40	43 32	15.82	2	89.62	47 29	13.06	36 1	0.13	44 59	14.33	52	9.20	40 23	16.16	7	79.99	54 48
14.71	5	79.55	40 42	14.93	3	89.86	45 40	16.16	1	0.16	48 18	16.16	54	9.63	46 41	12.21	9	80.26	51 22
16.16	5	79.57	47 14	13.80	4	90.03	40 30	15.41	1	0.23	48 54	15.82	55	9.76	49 22	15.17	9	80.28	50 51
15.22	6	79.79	40 21	15.62	4	90.05	48 03	15.22	2	0.36	41 19	16.16	59	10.47	45 43	14.75	10	80.50	59 14
15.67	7	79.95	40 30	15.56	5	90.19	40 42	15.56	3	0.62	48 37	15.56	37 1	10.84	47 53	12.04	11	80.77	53 51
15.31	9	80.33	43 04	11.33	7	90.67	43 21	16.16	5	0.81	42 39	13.42	2	11.04	43 54	14.84	12	80.84	59 52
14.93	10	80.45	44 29	15.31	8	90.74	46 35	13.54	5	0.90	49 57	13.65	3	11.26	49 58	15.22	12	80.84	52 47
15.56	10	80.50	46 59	15.46	9	90.99	41 47	14.00	9	1.56	48 05	9.46	4	11.41	48 08	15.56	12	80.87	57 10
11.71	14	81.14	49 27	15.31	10	91.06	47 55	16.16	10	1.82	43 10	14.93	4	11.42	47 48	14.98	13	81.08	54 22
16.16	21	82.36	44 59	14.98	12	91.43	41 31	14.08	12	2.06	43 36	16.16	5	11.49	41 39	15.46	14	81.16	52 23
15.82	21	82.39	49 31	12.88	13	91.58	41 57	15.67	12	2.13	41 49	16.16	5	11.50	44 50	15.46	14	81.18	53 11
13.61	22	82.52	40 42	14.75	14	91.78	41 07	15.97	13	2.27	41 49	14.93	6	11.77	44 52	14.98	15	81.32	53 13
13.88	22	82.55	43 05	10.79	14	91.81	48 36	15.82?	14	2.45	41 01	14.84	7	11.92	43 08	15.56	15	81.38	50 08
16.16	26	83.38	42 07	16.16	16	92.17	42 41	15.31	17	2.97	42 28	12.37	7	11.97	41 24	15.31	17	81.73	51 58
16.16	30	84.04	41 55	15.31	17	92.29	47 53	16.16	20	3.61	42 28	14.08	11	12.62	41 47	15.82	18	81.96	58 30
15.97	31	84.15	41 58	15.46	18	92.46	44 58	16.16	23	4.11	49 07	7.02*	11	12.64	49 07	15.46	20	82.28	55 03
15.41	31	84.16	40 29	15.72	19	92.78	43 02	14.84	23	4.13	42 39	12.21	11	12.70	47 00	14.25	20	82.29	59 36
15.46	33	84.49	40 02	13.88	25	93.87	49 02	14.54	24	4.27	45 49	13.35	14	13.06	42 36	15.22	20	82.37	51 14
13.54	33	84.59	43 33	16.16	26	93.94	48 41	16.16	25	4.42	49 50	16.16	14	13.18	46 29	16.16	22	82.62	51 05
16.16	34	84.71	46 25	12.37	26	93.97	42 55	15.56?	28	5.04	47 15	15.97	15	13.26	46 47	15.46	22	82.73	58 50
11.54	34	84.77	46 57	13.80	26	94.05	49 14	14.62	29	5.14	41 08	16.16	20	14.21	49 10	16.16	23	82.83	50 45
16.16	36	85.16	48 13	14.41	27	94.09	41 57	14.20	30	5.34	44 15	14.29	22	14.53	46 44	15.46	24	82.99	54 54
15.82	38	85.43	47 14	13.06	29	94.49	45 19	12.71	30	5.34	43 51	15.46	22	14.61	43 11	11.88	25	83.17	54 17
13.88	38	85.47	40 22	15.46	30	94.60	45 49	13.50	32	5.63	49 14	15.17	25	15.02	49 44	14.84	27	83.59	54 24
15.17	39	85.58	40 33	16.16	32	95.02	40 00	14.33	34	5.98	40 22	12.04	25	15.04	40 35	16.16	28	83.73	57 19
14.20	39	85.62	48 44	15.22	34	95.29	46 12	15.31	34	6.03	47 33	16.16	26	15.35	45 18	14.84	30	84.07	52 21
15.72	44	86.43	40 40	15.56	34	95.43	44 16	15.22	34	6.04	43 08	16.16	26	15.36	47 07	15.22	31	84.17	54 02
14.20	44	86.55	49 06	15.31	35	95.49	45 48	14.84	35	6.17	49 01	13.06	27	15.38	46 38	15.26	31	84.24	50 02
14.62	44	86.56	46 42	15.17	35	95.64	46 32	16.16	35	6.25	43 36	15.72	27	15.38	45 44	16.16	32	84.47	57 13
14.50	45	86.66	47 09	15.46	37	95.96	47 05	15.56	37	6.51	45 45	15.82	29	15.76	42 40	10.33	34	84.70	51 22
16.16	46	86.82	47 57	15.31	38	96.16	49 15	14.54	37	6.64	43 34	15.22	30	15.91	41 27	15.22	34	84.78	50 12
14.29	48	87.20	42 50	14.93	39	96.22	40 40	14.54	38	6.75	46 49	15.31	30	15.97	40 42	15.22	37	85.29	57 30
15.72	48	87.28	43 11	14.50	41	96.68	41 24	15.72	38	6.78	42 01	11.55	30	15.97	48 59	14.93	39	85.66	52 42
12.21	49	87.47	46 40	14.33	45	97.30	49 49	14.84	39	6.98	40 19	14.54	31	16.10	43 40	15.82	40	85.84	56 01
14.41	50	87.51	46 10	14.93	45	97.30	45 55	15.46	39	7.00	48 53	15.22	31	16.17	40 47	16.16	41	86.04	50 06
15.82	50	87.59	42 09	12.04	46	97.55	47 39	15.72	40	7.04	44 55	15.67	33	16.59	45 17	12.71	42	86.16	52 19
14.54	51	87.66	43 12	9.31	48	97.84	43 00	13.61	41	7.23	49 18	14.20	35	16.84	46 10	16.16	44	86.52	55 42
15.72	52	88.00	42 33	14.00	49	98.05	45 46	16.16	41	7.28	45 55	14.54	35	16.89	47 51	13.92	44	86.57	54 40
15.17	56	88.63	43 03	14.62	51	98.33	44 54	13.61	41	7.34	41 44	14.29	36	17.03	45 19	15.41	44	86.61	58 11
15.46	56	88.64	45 03	14.33	52	98.61	48 40	16.16	44	7.77	48 26	15.07	36	17.13	48 23	15.97	46	86.85	58 40
15.56	56	88.72	41 03	13.69	53	98.73	43 55	16.16	45	8.03	44 59	11.33	39	17.50	42 57	14.98	47	87.12	52 48
15.67	56	88.73	43 39	12.88	54	98.96	42 48	15.67?	46	8.21	48 41	14.98	39	17.57	46 35	15.31	48	87.26	55 11
13.80	57	88.77	40 41	15.41	54	99.00	49 13	14.71	46	8.22	49 42	16.16	40	17.74	48 30	15.56	48	87.30	53 46
15.82	57	88.86	44 07	15.46?	55	99.05	43 51	15.82	47	8.34	48 10	15.46	41	17.96	43 16	15.41	51	87.85	51 22
15.07	58	89.03	47 39	15.82?	55	99.08	43 16	11.31	48	8.50	47 17	14.75	33 59	78.58	51 26	16.16	52	88.05	58 23
15.31	59	89.12	40 22	15.46?	55	99.09	43 46	16.16	48	8.55	48 43	16.16	34 0	78.79	53 09	14.50	53	88.18	54 51

25 prec. + 90 sec. + 7′ 38″.

Area 21.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$ / $y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.16	34 54	88.37	58 50	12.21	35 48	97.86	59 44	14.41	36 53	9.41	56 21	15.77	34 7	80.05	0 20	14.41	35 11	91.40	5 34
14.98	55	88.52	51 30	13.80	50	98.29	51 25	15.41	54	9.64	59 42	13.88	12	81.01	3 11	15.41	12	91.45	5 26
14.12	56	88.69	57 32	14.75	53	98.72	54 27	14.80	55	9.66	50 30	11.71	13	81.07	1 15	15.82	14	91.97	5 04
15.67	58	89.00	54 50	15.41	53	98.82	53 35	15.72	56	9.88	54 46	15.22	15	81.41	1 20	11.41	16	92.21	6 05
13.61	58	89.11	56 41	14.98	53	98.83	56 24	14.29	56	9.90	59 03	13.31	15	81.53	6 14	16.16	16	92.29	1 29
15.22	59	89.24	59 26	15.56	55	99.04	56 38	11.88	56	9.96	55 11	15.56	17	81.81	9 00	16.16	18	92.56	6 03
15.56	35 0	89.43	54 49	11.88	56	99.24	54 18	13.06	57	10.14	54 09	16.16	20	82.30	2 19	14.84	18	92.65	4 07
16.16	2	89.79	55 28	11.88	57	99.44	53 38	16.16	58	10.23	53 15	15.41	20	82.36	9 48	15.22	19	92.73	1 19
15.31	3	89.86	54 13	15.46	58	99.61	56 45	15.97	59	10.42	54 15	15.31	20	82.36	2 02	16.16	19	92.78	2 03
15.82	4	90.01	58 52	13.42	59	99.83	59 11	15.82	37 0	10.54	52 16	11.23	22	82.70	0 47	13.80	20	92.87	5 15
15.72	7	90.54	59 08	16.16	36 0	0.01	53 32	13.88	2	10.98	54 33	12.21	26	83.34	9 00	16.16	22	93.24	7 42
13.42	9	90.90	51 46	16.16	2	0.28	57 29	15.56	3	11.22	50 51	14.29	27	83.52	3 38	15.31	23	93.52	7 40
13.92	9	90.96	59 25	12.54	3	0.58	50 08	15.41 ×	6	11.75	52 57	16.16	28	83.73	3 00	15.17	23	93.56	7 30
15.46	10	91.10	51 19	14.98?	3	0.58	51 22	10.86	8	11.97	52 22	16.16	28	83.76	4 18	12.21	24	93.58	9 24
15.07	10	91.21	56 12	15.97	4	0.75	53 29	15.46	10	12.37	56 46	16.16	31	84.22	5 19	15.82	25	93.76	3 02
14.75	11	91.24	53 12	15.97	8	1.40	53 03	15.17	10	12.40	52 54	15.41	34	84.77	6 24	14.80	25	93.79	0 23
15.67	11	91.34	51 09	15.82	8	1.48	55 54	14.84	10	12.48	58 07	15.22	34	84.88	4 48	16.16	27	94.24	9 21
16.16	12	91.52	54 30	15.46	10	1.70	58 56	16.16	11	12.58	52 32	16.16	36	85.20	4 41	12.37	30	94.64	1 22
15.97	12	91.55	56 45	14.29	10	1.82	56 53	13.77	13	12.99	50 19	14.98	37	85.37	3 00	14.45	30	94.71	9 34
15.97	13	91.65	58 44	14.54	11	1.99	54 31	12.54	16	13.39	57 17	15.56	37	85.42	2 29	15.22	31	94.87	5 21
14.98	13	91.74	52 21	13.06	12	2.05	55 44	11.71	16	13.46	58 14	15.07	42	86.29	5 10	15.22	32	95.07	6 26
12.88	15	92.04	52 40	12.54	15	2.68	51 18	16.16	17	13.57	53 55	16.16	45	86.82	5 57	16.16	34	95.33	9 29
16.16	17	92.44	59 36	14.71	17	2.94	50 20	16.16	18	13.73	58 18	14.98	47	87.10	6 34	14.93	34	95.46	7 47
14.98	18	92.64	51 53	14.84	18	3.28	58 18	15.31	20	14.12	57 47	14.93	48	87.27	3 16	12.04	35	95.54	2 53
15.17	19	92.80	51 57	15.46	20	3.60	50 50	13.92	20	14.20	52 51	14.75	48	87.35	2 39	14.62	39	96.29	7 55
15.67	21	93.02	53 25	16.16	22	3.82	57 18	13.80	22	14.45	59 06	14.29	49	87.41	4 18	15.41	40	96.49	7 45
15.97	22	93.32	53 03	14.54	22	3.91	55 12	14.41	22	14.57	59 19	14.54	49	87.43	9 18	14.93	42	96.74	9 47
15.67	22	93.32	50 55	16.16	23	3.99	52 03	15.31	24	14.82	57 19	16.16	50	87.69	9 22	14.33	42	96.78	7 48
14.98	23	93.45	58 29	15.46	26	4.51	51 23	15.07	27	15.46	50 28	15.46	51	87.87	0 59	15.41	43	96.98	5 28
14.93	23	93.50	51 30	14.98	26	4.60	53 57	13.88	27	15.47	57 02	15.41	52	87.93	4 46	15.31	43	97.02	4 52
9.98	25	93.73	54 30	15 67	29	5.08	56 28	14.20	27	15.49	58 37	15.22	52	88.06	3 33	15.67	45	97.32	4 28
16.16	25	93.76	51 43	16.16	29	5.14	56 31	14.84	28	15.58	59 28	14.84	54	88.35	7 32	16.16	45	97.35	8 23
14.41	29	94.51	58 34	14.00	32	5.70	52 15	15.82	28	15.58	50 39	14.93	54	88.41	5 39	15.22	46	97.49	1 08
14.29	32	95.10	55 33	11.71	32	5.71	55 00	15.22	29	15.77	52 15	16.16	56	88.68	6 09	14.84	50	98.32	2 20
15.41	33	95.15	57 12	16.16	35	6.14	56 54	14.62	30	15.92	59 59	16.16	56	88.72	2 00	9.50	51	98.38	4 18
15.22	33	95.22	51 35	15.31	37	6.63	56 48	15.82	30	15.95	51 29	15.72	57	88.81	4 07	15.07	52	98.57	3 32
16.16	36	95.76	56 18	15.07	38	6.64	53 29	16.16	32	16.29	55 25	15.12	59	89.24	9 46	15.46	53	98.71	7 47
15.31	36	95.83	55 56	10.70	39	6.98	52 50	16.16	37	17.09	50 12	16.16	59	89.32	8 01	15.07	54	98.91	6 26
15.67	37	95.85	55 50	16.16	40	7.01	56 42	15.22	37	17.20	58 10	15.31	35 0	89.37	2 13	15.31	55	99.13	7 29
14.29	37	96.00	58 15	14.50	40	7.02	53 25	15.72	39	17.46	53 01	14.12	2	89.75	9 56	16.16	55	99.14	8 06
14.93	38	96.16	57 15	13.35	44	7.78	55 50	7.84*	40	17.73	55 48	15.41	3	89.87	7 25	14.75	57	99.42	2 35
14.62	42	96.74	52 07	13.35	45	8.02	56 08	12.21	41	17.86	51 44	11.71	4	90.20	3 55	15.46	59	99.75	3 40
14.75	42	96.79	56 33	16.16	46	8.13	54 39	11.88	33 56	78.09	0 46	14.50	5	90.24	0 04	16.16	36 1	0.11	6 50
16.16	42	96.85	53 45	15.07	49	8.60	53 10	15.46	34 0	78.80	4 29	15.31	6	90.46	7 37	12.21	2	0.36	4 53
14.84	42	96.88	53 01	13.24	49	8.63	53 51	14.33	1	79.03	8 55	14.58	6	90.54	9 56	15.41	4	0.69	9 21
16.16	43	97.00	59 21	15.82	50	8.94	56 58	12.88	2	79.14	0 39	13.35	6	90.55	1 44	16.16	6	1.02	7 18
15.31	43	97.02	52 19	13.06	51	8.98	50 37	14.62	3	79.39	9 42	15.97	7	90.72	8 52	16.16	7	1.27	8 21
15.46	44	97.09	51 39	16.16	51	9.11	59 17	13.92	4	79.44	5 22	16.16	8	90.75	1 20	15.82	11	1.87	1 56
13.88	46	97.48	57 12	15.07	53	9.35	50 51	15.22	4	79.60	9 43	16.16	9	91.07	6 47	13.06	11	2.01	8 59
15.31	47	97.65	54 40	12.54	53	9.39	54 46	16.16	6	79.92	7 47	15.82	11	91.40	9 59	15.07	13	2.30	3 23

25 prec. + 90 sec. + 7′ 38″.

Area 21.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.93	36 14	2.50	4 55	15.22	37 23	14.68	0 42	14.00	34 36	85.15	17 19	14.93	35 35	95.57	18 05	12.71	36 29	5.08	15 59
14.84	15	2.70	8 43	15.31	23	14.72	4 56	15.97	37	85.46	18 40	15.26	39	96.28	10 22	14.98	29	5.08	12 10
16.16	16	2.77	6 36	14.50	24	14.77	5 40	15.31	38	85.60	19 39	15.46	41	96.62	14 42	14.71	31	5.42	14 18
14.00	18	3.15	2 35	15.03	24	14.86	0 17	16.16	38	85.60	13 45	15.07	42	96.82	11 20	14.33	35	6.16	13 36
13.42	20	3.45	9 23	15.97	28	15.61	9 27	16.16?	40	85.83	11 15	12.04	43	97.03	10 51	13.54	37	6.44	12 40
12.71	20	3.46	2 05	16.16	28	15.62	5 27	15.97	40	85.92	10 34	15.17	43	97.04	12 07	15.41	38	6.60	15 35
14.84	20	3.53	7 56	14.33	30	15.82	5 57	14.29	41	86.08	16 41	14.41	44	97.10	10 20	15.72	38	6.68	14 32
14.00	20	3.53	5 40	15.56	30	15.83	1 25	13.42	43	86.49	18 55	14.62	48	97.83	17 25	15.31	39	6.85	14 12
15.22	26	4.55	5 49	14.75	30	15.93	5 45	15.17	44	86.58	18 26	14.84	48	97.92	12 38	11.17	41	7.29	12 54
13.06	27	4.80	5 08	16.16	31	16.03	8 15	12.71	44	86.58	21 24	16.16	50	98.30	18 28	16.16	42	7.31	11 27
15.72	29	5.16	8 23	15.82	32	16.22	0 17	15.82	44	86.66	12 18	16.16	51	98.49	17 45	16.16	42	7.33	19 52
15.97	30	5.27	6 25	15.41	32	16.26	7 46	14.29	44	86.66	10 58	13.06	53	98.75	17 46	14.62	42	7.38	13 28
15.41	30	5.33	6 35	15.97	34	16.57	0 00	15.56	47	87.19	18 00	14.75	54	98.94	15 03	15.97	43	7.52	18 13
14.20	31	5.45	5 47	16.16	35	16.71	4 27	14.62	49	87.57	12 10	14.62	54	99.02	14 59	13.06	43	7.62	18 30
14.00	31	5.50	3 35	14.25	35	16.76	9 51	15.17	50	87.64	17 22	14.93	55	99.04	16 45	12.54	44	7.71	13 54
14.12	34	5.96	6 45	16.16	35	16.79	5 33	15.72	51	87.85	11 28	10.86	55	99.10	10 09	14.50	45	7.87	18 23
16.16	37	6.47	5 50	14.20	36	16.90	8 55	14.71	53	88.23	18 39	15.67	56	99.28	18 52	15.82?	45	7.90	12 30
10.83	38	6.74	0 46	15.41	36	16.96	0 42	14.54	54	88.33	17 10	16.16	57	99.52	14 56	13.84	45	7.98	10 04
15.22	41	7.26	0 59	14.33	36	17.01	2 07	15.46	54	88.46	16 35	14.41	58	99.66	14 40	13.80	48	8.45	12 27
15.07	42	7.40	2 29	14.71	39	17.40	8 55	14.98	55	88.58	16 43	13.24	36 1	0.14	17 36	12.71	48	8.46	11 01
16.16	48	8.55	5 06	12.54	41	17.79	6 03	16.16	58	89.05	16 33	15.41	1	0.15	18 43	15.97	49	8.58	16 33
15.97	48	8.55	4 45	15.41	33 56	78.15	14 51	15.82	35 0	89.38	18 39	13.80	2	0.35	19 12	14.71	49	8.58	12 04
15.07	51	8.92	6 36	15.41	58	78.52	18 50	16.16	0	89.50	19 15	15.31	2	0.42	12 31	15.31	49	8.60	10 39
15.67	55	9.67	4 54	14.84	34 1	79.10	11 23	15.72	2	89.88	18 50	16.16	3	0.49	16 40	15.67	49	8.69	12 49
14.29	56	9.97	5 39	15.22	5	79.77	11 05	15.97	3	89.94	18 41	15.17	6	1.05	18 59	15.67	52	9.09	13 48
15.97	59	10.37	7 04	15.82	7	80.07	14 58	15.31	6	90.46	12 13	14.71	7	1.18	15 44	15.46	52	9.14	16 44
16.16	37 1	10.84	9 16	15.97	7	80.13	19 22	15.67	8	90.89	17 05	13.06	7	1.19	16 04	14.71	52	9.14	16 19
13.35	2	10.93	3 19	15.67	8	80.31	14 25	15.41?	9	91.00	16 39	15.31	7	1.24	14 30	14.71	56	9.92	12 36
15.56	4	11.23	1 40	14.75	8	80.33	11 56	15.46	10	91.16	10 28	15.22	8	1.41	13 49	15.56	57	10.10	19 11
15.41	6	11.63	5 10	16.16	9	80.41	19 55	14.75	10	91.22	14 18	16.16	11	1.92	17 39	12.21	59	10.37	17 00
15.17	7	11.87	1 27	15.17	9	80.42	18 38	15.56	13	91.66	12 57	14.98	11	2.02	12 52	15.31	59	10.42	10 06
13.06	9	12.20	5 54	11.88	10	80.67	10 43	15.56	14	91.90	18 31	15.97	13	2.32	19 09	14.71	37 4	11.29	18 21
13.42	9	12.22	3 44	14.71	10	80.69	13 55	14.84	14	91.96	13 08	12.37	14	2.47	11 11	14.62	4	11.34	11 12
13.88	9	12.23	0 08	13.88	12	80.97	10 37	15.46	15	92.14	15 48	16.16	14	2.51	17 23	15.17	5	11.38	11 51
14.08	9	12.25	4 10	15.17	12	80.98	17 52	16.16	16	92.24	18 34	15.07	15	2.67	19 21	15.41	5	11.43	17 45
12.21	10	12.29	6 14	14.08	12	80.99	11 27	14.08	16	92.25	12 03	12.54	16	2.73	11 47	15.82	5	11.48	10 41
12.54	12	12.73	1 57	14.62	15	81.51	12 24	15.67	17	92.36	10 34	13.88	16	2.82	11 19	13.61	7	11.74	15 52
14.25	13	12.80	0 20	16.16	15	81.60	17 53	15.07	21	93.07	16 49	15.46	18	3.25	19 29	15.31	8	12.01	11 42
13.46	13	12.89	0 29	15.22	18	82.09	14 33	11.88	21	93.12	11 43	10.86	20	3.46	10 44	14.71	8	12.04	19 30
10.69	15	13.25	8 05	14.41	19	82.29	15 12	12.37	22	93.23	15 17	12.88	20	3.57	15 47	15.17	9	12.20	13 15
12.61	16	13.39	9 31	15.31	21	82.55	17 07	14.20	22	93.36	15 10	15.17	22	3.81	17 56	16.16	14	12.94	15 14
15.17	16	13.41	1 56	14.80	26	83.45	10 24	15.17	23	93.50	16 21	14.33	22	3.93	12 26	13.35	14	13.01	19 51
15.17	16	13.51	7 04	11.47	27	83.69	17 54	16.16	24	93.57	12 47	13.88	23	3.97	10 06	16.16	14	13.04	12 06
11.88	18	13.77	2 43	15.41	30	84.10	19 51	16.16	24	93.61	13 33	15.46	24	4.16	17 29	16.16	14	13.11	14 22
16.16	18	13.82	8 25	16.16	30	84.21	17 39	15.46?	24	93.61	16 08	14.84	25	4.47	18 11	15.41	14	13.11	14 53
15.31	19	14.02	3 48	15.67	32	84.52	12 42	14.71	25	93.81	12 46	12.21	27	4.70	17 16	14.93	15	13.15	16 48
14.98	20	14.13	7 14	15.31	33	84.64	10 18	15.31	26	93.99	15 12	15.56	27	4.80	10 51	15.67	15	13.23	16 12
16.16	21	14.22	9 04	15.31	33	84.70	14 07	15.46	29	94.53	15 23	11.26	28	4.86	17 57	15.67	16	13.29	15 44
15.22	21	14.30	8 08	16.16	33	84.73	13 20	16.16	31	94.92	12 26	15.31	28	4.97	12 16	15.97	16	13.42	16 11
13.69	22	14.39	4 59	15.22	34	84.92	18 37	13.54	33	95.26	13 17	14.12	28	4.98	18 55	15.56	17	13.51	14 35

25 prec. + 90 sec. + 7′ 38″.

Area 21.

751—760				761—766			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	'	' "		m s	'	' "
10.86	37 19	13.96	12 10	14.50	37 36	16.82	19 49
14.62	20	14.15	15 15	14.75	37	17.04	11 48
15.97	21	14.22	17 51	9.96	38	17.24	14 17
12.54	23	14.66	11 59	16.16	39	17.48	14 45
15.97	25	14.95	15 14	15.31	40	17.66	15 30
15.41	25	14.95	11 55	13.06	42	17.88	14 19
14.71	27	15.35	11 18				
14.00	31	16.11	19 11				
15.22	33	16.43	16 06				
13.69	33	16.45	18 49				

25 prec. + 91 sec. + 7' 37".

Area 22. Centre for 1900: 2h 38m + 45° 10'.

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
16.43	36 18	82.00	54 38	10.30	36 44	86.58	51 18	14.91	37 7	90.54	54 34	16.43	37 35	95.65	51 43	13.84	38 4	0.76	55 14
16.43	19	82.13	59 42	14.62	44	86.61	56 28	15.53	8	90.85	56 26	16.20	36	95.68	55 20	12.69	5	0.83	50 52
16.07	19	82.15	50 57	16.62	45	86.65	55 47	14.70	9	90.98	57 18	16.43	38	96.07	50 09	15.79	5	0.91	54 57
16.28	20	82.29	52 31	15.24	45	86.69	52 14	15.16	11	91.38	53 08	13.31	38	96.18	55 23	15.24	6	1.01	55 16
12.99	21	82.41	50 41	13.31	45	86.69	58 43	15.79	12	91.43	52 47	14.82	39	96.20	59 10	14.22	6	1.02	59 32
15.45	22	82.60	50 56	14.34	45	86.76	56 39	16.24	12	91.48	59 27	16.62	39	96.20	56 41	16.62	7	1.17	50 57
16.07	22	82.60	55 36	16.28	48	87.19	58 20	15.37	13	91.60	55 29	15.87	39	96.30	56 03	15.37	7	1.22	54 01
15.03	23	82.78	54 48	16.62	48	87.28	56 09	16.28	14	91.78	50 02	13.66	41	96.66	58 10	13.84	8	1.46	59 41
15.45	24	82.99	59 46	13.84	48	87.29	56 37	12.54	14	91.80	54 32	16.62	42	96.72	57 08	16.43	10	1.78	59 38
13.48	24	83.05	53 30	15.53	48	87.29	52 19	12.54	14	91.80	57 41	15.53	42	96.73	55 17	15.74	10	1.81	57 41
16.43	25	83.20	55 07	15.79	49	87.38	54 05	14.95	15	92.08	59 06	14.50	47	97.76	56 47	16.43	10	1.82	58 55
14.50	25	83.23	54 29	14.11	49	87.44	53 53	15.95	17	92.31	56 29	13.31	47	97.77	50 04	15.99	10	1.84	56 55
13.84	26	83.31	54 53	16.62	50	87.69	56 44	14.42	17	92.47	51 14	14.30	48	97.81	56 59	15.03	11	1.96	58 40
16.62	26	83.32	58 13	15.66	51	87.72	56 08	14.03	18	92.55	58 57	13.66	49	98.07	51 36	14.30	12	2.08	55 03
16.62	28	83.67	53 47	14.34	51	87.82	58 01	16.43	18	92.56	59 53	13.48	50	98.14	56 30	15.45	12	2.14	51 58
15.74	29	83.96	53 02	16.62	51	87.86	56 47	16.62	19	92.73	53 16	14.95	51	98.36	54 54	15.74	13	2.25	52 58
16.62	30	84.03	56 29	15.66	53	88.12	54 07	15.24	22	93.34	56 43	16.62	51	98.40	56 47	16.62	14	2.57	53 07
14.82	31	84.21	55 02	9.92	53	88.13	50 13	14.42	22	93.34	56 37	14.95	52	98.57	57 18	15.11	15	2.58	52 08
11.99	31	84.28	55 29	15.79	54	88.24	57 13	16.43	24	93.69	50 48	16.43	53	98.73	59 52	16.62	15	2.58	56 07
16.62	33	84.67	53 45	15.79	55	88.44	59 49	13.48	25	93.79	51 59	15.45	55	99.04	55 16	16.62	17	3.00	58 16
14.03	34	84.85	58 02	15.45	56	88.66	54 01	15.83	27	94.14	59 57	16.62	57	99.49	55 27	14.22	18	3.21	56 59
16.62	35	84.99	55 13	14.62	56	88.66	55 47	16.62	29	94.43	54 55	14.74	59	99.80	54 08	14.22	19	3.32	56 39
16.62	36	85.12	58 30	13.84	58	89.09	58 19	14.42	29	94.50	57 29	15.99	38 0	0.08	51 48	13.31	19	3.33	53 42
15.95	36	85.21	50 47	16.62	59	89.26	57 56	14.62	30	94.75	59 12	12.54	2	0.27	57 12	13.22	19	3.39	59 52
14.82	37	85.39	55 54	13.66	37 0	89.32	53 03	16.62	31	94.94	55 52	15.99	2	0.36	59 19	16.28	20	3.53	59 57
15.37	39	85.63	57 12	16.43	0	89.33	54 55	16.07	31	94.94	55 10	12.39	2	0.39	54 21	16.43	20	3.63	54 35
14.03	39	85.66	53 44	15.58	2	89.77	50 34	15.87	33	95.20	50 29	13.31	3	0.48	58 00	14.62	22	3.87	58 28
15.99	39	85.74	58 19	13.84	4	90.11	54 18	16.28	33	95.27	59 19	14.70	4	0.64	53 06	15.95	23	3.99	56 00
16.16	41	86.04	59 49	15.53	5	90.19	55 15	13.84	34	95.45	54 42	12.54	4	0.71	59 50	14.54	23	4.00	58 41
12.99	41	86.04	59 13	15.16	6	90.53	54 46	15.74	35	95.59	56 10	16.43	4	0.72	59 30	15.32	23	4.03	55 23

25 prec. + 98 sec. + 6' 28".

151—200				201—250				251—300				301—350				351—400			
Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$ / $y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.62	38 23	4.15	51 04	13.66	38 59	10.45	50 26	15.37	39 51	19.62	51 09	15.87	36 50	87.68	8 01	12.39	37 49	98.07	9 19
16.62	25	4.41	50 46	13.15	39 0	10.54	58 54	14.62	51	19.65	59 54	12.99	52	88.03	9 19	16.62	49	98.09	6 11
16.28	26	4.59	52 32	14.62	0	10.64	56 27	13.66	53	19.96	59 04	16.28	53	88.23	2 46	15.32	50	98.21	4 09
16.20	26	4.67	56 59	16.28	1	10.73	52 26	15.45	54	20.27	56 40	13.31	55	88.55	5 11	13.48	51	98.38	0 33
16.62	27	4.76	57 15	16.62	1	10.85	55 38	14.14	57	20.70	54 02	16.62	55	88.56	6 21	15.45	55	99.04	5 18
15.95	28	4.89	53 00	15.03	2	11.06	55 08	16.62	58	20.80	55 03	16.07	58	89.05	9 37	14.54	55	99.14	0 14
16.62	28	5.03	56 57	15.20	2	11.06	59 43	14.30	58	20.90	58 45	11.81	59	89.16	5 49	16.62	57	99.44	7 30
16.20	29	5.12	59 17	16.62	3	11.18	56 31	16.07	59	21.14	58 38	16.62	59	89.27	6 44	13.48	59	99.77	0 33
15.95	29	5.20	53 07	14.42	4	11.35	53 18	16.62	40 0	21.20	55 26	15.79	37 0	89.38	9 00	9.99	38 0	99.92	6 46
13.59	32	5.60	57 48	15.58	5	11.58	51 33	16.24	0	21.23	59 37	15.53	0	89.41	5 36	14.34	2	0.27	3 50
16.28	32	5.63	53 02	16.62	7	11.88	56 13	15.74	2	21.58	58 58	14.95	3	89.92	2 33	16.62	3	0.48	8 29
16.62	34	6.00	52 43	12.11	8	12.01	59 51	14.82	3	21.81	55 39	15.53	6	90.40	5 46	15.32	3	0.59	3 39
14.70	35	6.22	53 15	15.74	9	12.15	50 07	16.28	36 19	82.11	0 41	16.43	6	90.45	6 50	15.87	4	0.71	2 27
16.62	37	6.48	55 44	13.95	10	12.46	50 26	15.99	20	82.29	2 50	15.16	9	91.05	8 40	16.62	4	0.71	5 19
15.32	38	6.64	51 26	16.62	11	12.49	54 26	16.43	20	82.37	1 11	15.58	10	91.09	4 29	16.62	4	0.77	7 29
14.95	38	6.68	50 37	16.07	12	12.73	57 55	15.11	20	82.38	5 56	15.87	11	91.36	6 07	12.69	5	0.81	1 41
16.62	38	6.77	57 13	16.62	14	13.12	58 04	14.82	22	82.71	1 11	13.66	13	91.69	8 53	13.48	6	1.02	7 29
15.79	39	6.94	56 58	16.16	15	13.31	59 30	15.24	24	83.02	9 06	14.03	13	91.71	6 21	15.24	6	1.10	2 04
13.31	40	7.14	50 53	14.70	16	13.36	51 39	16.62	24	83.03	6 35	12.69	13	91.73	8 42	16.16	9	1.55	4 03
15.74	42	7.46	58 33	16.62	16	13.41	53 24	14.91	24	83.10	4 34	14.22	15	92.02	9 45	16.62	10	1.76	8 55
14.42	43	7.53	55 52	16.62	16	13.46	50 05	14.54	25	83.17	5 51	12.84	18	92.65	6 51	16.12	11	1.89	9 57
16.07	43	7.56	59 50	14.22	19	13.99	52 46	14.50	26	83.32	5 48	13.84	20	92.88	5 33	16.62	12	2.08	5 05
15.95	43	7.59	58 23	16.07	20	14.12	55 18	16.62	26	83.34	0 29	15.95	21	93.08	2 17	16.43	13	2.28	4 14
15.45	43	7.59	52 22	15.53	22	14.44	56 13	14.42	27	83.53	1 12	15.03	21	93.17	4 53	16.43	14	2.38	7 12
16.62	43	7.60	59 59	13.66	23	14.68	59 36	16.62	27	83.57	4 40	15.99	22	93.29	6 59	15.11	14	2.56	9 50
15.66	44	7.70	58 38	15.79	25	15.06	51 06	13.48	29	83.95	6 58	15.66	24	93.69	0 52	15.58	15	2.58	2 10
15.74	44	7.85	55 27	13.84	25	15.12	52 31	15.74	30	84.15	6 29	16.62	24	93.70	7 33	15.58	15	2.59	2 36
16.62	46	8.13	59 28	15.87	26	15.15	57 50	12.99	32	84.53	2 43	12.54	29	94.53	0 58	14.34	15	2.66	0 38
16.43	47	8.32	58 47	15.79	27	15.36	51 21	10.79	33	84.72	4 27	14.42	32	95.12	2 15	16.62	16	2.82	6 16
16.28	48	8.43	57 13	16.62	28	15.53	55 37	15.32	36	85.22	0 19	14.42	35	95.56	5 56	16.16	16	2.83	3 08
15.32	49	8.61	52 16	15.95	28	15.57	59 18	12.25	36	85.22	8 50	14.38	35	95.66	9 36	15.45	17	2.92	8 08
15.95	49	8.74	50 36	15.87	28	15.67	56 57	16.62	40	85.82	8 07	15.79	36	95.69	0 40	12.99	19	3.31	3 31
15.37	50	8.88	56 30	15.11	31	16.07	55 25	11.80	41	85.99	3 09	15.24	36	95.69	5 03	15.53	19	3.31	1 02
15.24	51	8.98	58 30	16.62	31	16.13	57 59	16.62	42	86.16	5 50	16.62	36	95.79	8 00	15.66	19	3.33	6 26
16.28	52	9.21	56 04	11.25	32	16.32	55 58	16.28	42	86.25	7 26	16.43	37	96.00	0 37	14.03	20	3.58	5 10
16.62	52	9.24	51 14	14.30	33	16.47	51 50	15.95	42	86.25	6 16	13.15	37	96.01	7 35	15.74	22	3.85	7 32
16.20	52	9.26	52 46	15.53	33	16.52	55 58	15.45	43	86.38	6 36	16.16	38	96.04	2 19	13.84	22	3.92	3 39
14.03	52	9.27	51 51	15.99	35	16.79	57 14	14.74	43	86.38	5 47	14.95	38	96.07	6 18	16.62	25	4.34	4 31
15.95	52	9.28	58 27	16.62	36	16.90	58 45	13.84	43	86.39	5 28	15.32	38	96.11	8 57	15.99	25	4.42	7 39
12.39	53	9.41	57 59	15.99	36	17.04	54 43	13.95	46	86.87	5 11	16.20	39	96.23	7 15	11.65	25	4.47	9 08
16.62	53	9.46	56 58	13.66	37	17.11	57 30	15.99	46	86.97	5 47	15.58	39	96.31	8 15	13.95	27	4.70	3 00
16.16	54	9.49	56 17	16.62	43	18.20	57 51	12.84	46	86.98	4 19	15.74	42	96.73	6 40	15.95	28	4.98	1 54
15.32	54	9.49	53 05	14.11	45	18.59	50 49	12.54	47	87.13	4 00	15.53	42	96.75	7 58	16.62	30	5.30	6 41
16.07	54	9.57	53 47	16.62	46	18.67	59 35	12.84	47	87.14	3 40	16.28	43	96.93	8 33	15.03	31	5.48	3 16
15.45	55	9.67	52 17	16.28	48	19.05	55 41	15.45	47	87.17	7 29	16.62	43	96.93	3 31	16.62	32	5.65	7 26
14.70	55	9.70	54 40	16.07	48	19.12	56 38	16.07	48	87.27	4 29	16.20	43	97.05	3 23	15.99	35	6.15	3 13
14.34	55	9.78	53 34	15.45	49	19.22	51 28	13.84	48	87.31	2 42	16.62	45	97.32	3 22	15.58	35	6.17	1 18
15.32	56	9.87	59 24	15.79	50	19.42	55 05	16.28	48	87.31	1 16	15.37	47	97.67	0 46	13.66	36	6.37	6 18
14.62	56	9.88	52 35	15.16	50	19.47	53 33	15.37	48	87.37	3 47	14.14	47	97.68	3 35	16.62	40	6.98	3 45
13.95	56	9.92	51 34	15.58	50	19.52	57 45	12.84	50	87.64	1 01	16.28	49	98.06	0 18	16.16	40	7.09	8 43

25 prec. + 98 sec. + 6′ 27″.

401—450				451—500				501—550				551—600				601—650			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.49	38 41	7.17	0 51	16.07	39 34	16.67	5 10	15.70	36 22	82.82	19 52	15.03	37 10	91.11	12 15	16.62	37 50	98.21	16 40
14.82	41	7.19	9 13	11.46	35	16.84	2 25	15.99	24	83.03	12 02	15.58	10	91.20	14 16	16.62	51	98.34	11 17
14.22	44	7.68	8 04	15.11	36	16.93	8 57	14.03	24	83.15	18 34	15.79	11	91.30	14 52	13.95	51	98.38	10 45
15.66	46	8.12	6 09	14.62	38	17.23	9 38	13.15	28	83.77	18 40	16.16	14	91.82	15 13	14.42	51	98.49	18 40
15.87	47	8.24	0 13	15.16	41	17.86	4 34	16.62	30	84.08	16 19	13.22	14	91.99	10 10	15.58	53	98.71	16 44
16.28	47	8.25	8 59	16.62	42	17.97	2 25	13.84	31	84.29	13 07	12.69	17	92.41	14 22	14.42	53	98.77	16 23
15.16	48	8.45	9 07	15.11	42	18.02	6 28	15.53	31	84.38	14 07	16.43	19	92.82	12 57	14.62	56	99.26	14 34
15.37	49	8.57	7 56	12.39	43	18.19	5 27	14.95	31	84.38	11 51	12.54	20	93.01	16 42	15.58	56	99.34	16 18
15.66	50	8.75	3 21	15.66	43	18.25	5 59	13.48	32	84.46	13 01	16.62	21	93.17	13 07	14.34	57	99.42	11 27
15.99	51	9.06	2 13	14.30	44	18.35	8 15	11.97	33	84.69	17 37	15.58	21	93.18	12 28	15.87	58	99.67	11 18
16.20	51	9.08	2 57	12.84	44	18.37	9 02	16.43	34	84.80	10 48	14.11	21	93.21	11 58	14.70	58	99.67	14 09
16.43	52	9.09	6 01	7.70*	44	18.40	1 49	14.62	34	84.84	18 42	12.84	22	93.29	11 42	13.84	59	99.79	15 14
15.79	53	9.29	4 19	13.95	45	18.50	2 34	15.99	36	85.13	12 35	12.25	22	93.30	10 12	15.66	59	99.87	18 37
15.66	53	9.30	3 08	14.22	45	18.50	4 58	15.79	36	85.14	11 06	14.70	23	93.44	18 49	15.45	59	99.88	12 07
15.53	53	9.36	7 16	15.24	45	18.59	9 17	15.53	37	85.42	19 47	14.91	23	93.50	15 45	16.62	38 0	0.09	18 01
14.95	53	9.40	5 23	13.84	46	18.67	0 29	14.30	38	85.63	16 39	15.37	24	93.61	18 34	16.62	1	0.12	10 16
15.03	54	9.49	1 16	16.62	46	18.72	2 22	15.32	39	85.66	18 02	15.87	24	93.69	14 48	15.79	1	0.13	16 42
16.16	54	9.50	0 03	15.45	47	18.93	4 27	15.95	39	85.78	14 13	15.37	25	93.92	13 46	13.48	2	0.37	16 19
14.70	57	10.04	6 04	15.45	49	19.21	4 23	14.82	39	85.80	16 37	14.95	26	93.99	12 52	16.62	2	0.39	10 08
14.14	57	10.13	5 37	16.62	53	19.87	5 46	16.62	41	86.15	17 26	16.07	26	94.02	14 12	16.62	2	0.44	12 20
15.37	58	10.23	8 20	16.62	54	20.07	7 07	14.42	42	86.18	14 00	15.11	26	94.02	19 53	13.48	3	0.49	14 35
15.79	59	10.44	2 15	16.43	54	20.18	6 12	14.82	42	86.20	13 35	13.15	27	94.22	18 29	14.30	3	0.50	14 50
16.28	39 0	10.66	6 22	15.79	54	20.19	9 27	15.53	43	86.42	13 25	15.24	27	94.23	12 37	15.45	3	0.60	13 18
16.62	2	10.88	6 05	15.79	55	20.28	5 34	15.45	43	86.51	12 53	14.50	29	94.63	12 45	16.62	5	0.93	13 26
15.53	3	11.04	0 25	16.43	55	20.38	0 26	14.82	44	86.62	12 21	15.53	30	94.65	17 15	12.84	6	1.04	19 05
14.82	3	11.16	8 44	15.11	56	20.56	0 40	16.62	44	86.68	15 28	15.03	30	94.66	14 20	16.62	8	1.43	18 32
14.91	3	11.18	6 34	16.62	58	20.88	2 17	14.11	45	86.72	19 17	13.15	30	94.73	14 35	15.95	9	1.52	17 49
15.11	5	11.51	1 38	16.43	58	20.91	6 21	15.16	45	86.82	15 00	14.70	31	94.84	16 35	15.03	12	2.08	14 38
15.53	6	11.59	5 57	13.15	40 1	21.31	0 18	14.42	46	86.92	12 38	16.28	31	94.95	12 18	15.03	12	2.10	12 23
14.34	8	11.91	8 48	15.79	1	21.33	2 06	13.41	48	87.40	16 35	16.62	32	95.07	13 34	8.22*	12	2.10	10 35
15.11	9	12.12	9 06	13.48	1	21.39	9 11	14.91	50	87.62	10 37	16.62	33	95.17	12 35	14.95	13	2.24	17 28
15.74	9	12.21	5 55	16.62	1	21.44	7 39	16.62	51	87.87	18 43	15.87	34	95.38	16 46	13.66	13	2.32	10 12
15.32	10	12.33	0 55	15.03	2	21.48	8 45	14.03	52	87.95	18 55	16.16	34	95.49	10 11	15.87	14	2.38	15 29
15.24	10	12.33	5 41	14.22	2	21.53	9 35	16.07	52	88.06	11 34	15.24	36	95.73	11 08	15.74	15	2.71	11 11
16.62	11	12.47	4 57	16.16	2	21.55	8 09	15.07	52	88.12	10 00	16.43	36	95.80	10 36	15.16	17	3.07	10 42
13.84	12	12.62	9 25	14.22	4	21.94	5 08	16.62	53	88.16	10 17	13.66	37	96.01	14 17	16.62	18	3.11	17 13
12.54	15	13.19	3 32	12.11	4	21.97	6 24	15.95	53	88.18	14 50	15.11	39	96.38	13 42	12.69	18	3.21	16 16
16.62	17	13.61	0 41	16.62	5	21.99	8 05	13.84	53	88.23	12 06	13.84	42	96.74	17 56	15.66	18	3.25	13 52
16.62	20	14.15	8 44	16.16	36 18	82.07	18 30	12.69	54	88.37	14 02	14.62	42	96.75	13 15	16.62	19	3.35	14 28
15.32	22	14.53	8 12	15.79	18	82.08	17 54	14.91	56	88.68	17 18	12.54	42	96.76	12 52	16.28	19	3.42	11 16
15.74	26	15.19	7 18	14.30	18	82.09	16 34	15.45	56	88.76	16 04	16.62	42	96.82	10 51	16.62	20	3.44	16 08
15.16	26	15.23	1 50	14.03	19	82.30	16 53	15.95	58	89.10	18 22	16.62	42	96.85	11 51	11.32	20	3.44	13 01
14.70	26	15.27	7 31	14.34	19	82.30	16 20	16.62	59	89.31	17 58	16.62	43	96.95	19 35	16.16	21	3.74	14 27
16.62	27	15.37	0 56	15.58	20	82.42	19 03	16.43	59	89.31	11 08	16.43	43	97.06	18 53	15.37	23	4.05	18 55
15.11	29	15.70	5 16	13.66	20	82.42	11 51	14.42	37 2	89.78	17 03	16.62	44	97.14	18 30	12.69	25	4.47	13 35
13.15	29	15.77	9 40	16.43	21	82.51	18 46	14.22	3	90.04	16 54	15.45	46	97.61	17 08	16.62	27	4.82	13 24
16.43	31	15.99	7 06	16.62	22	82.68	11 59	16.62	6	90.46	11 46	13.95	47	97.68	19 15	16.62	28	4.91	18 38
15.99	32	16.21	9 28	16.62	22	82.69	12 58	14.82	6	90.52	11 24	16.28	49	98.06	17 06	15.32	28	4.92	18 12
14.62	32	16.24	3 37	16.62	22	82.73	17 53	14.34	7	90.59	10 57	13.48	50	98.18	12 52	13.66	28	5.01	12 32
14.34	33	16.41	9 01	11.02	22	82.78	14 14	15.74	9	91.04	16 16	16.43	50	98.19	18 02	16.62	28	5.02	12 47

25 prec. + 98 sec. + 6′ 27″.

651—700				701—750				751—800				801—850				851—900			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.62	38 29	5.11	10 42	16.62	39 9	12.08	18 25	15.03	39 56	20.50	16 43	15.45	36 54	88.38	20 58	16.62	37 46	97.52	27 57
15.74	29	5.14	17 58	13.48	11	12.51	19 14	9.63	57	20.54	11 03	14.22	54	88.43	26 49	15.99	48	97.84	29 46
15.62	31	5.51	19 35	12.39	12	12.75	14 25	16.62	58	20.79	15 54	15.45	55	88.64	20 56	15.03	48	97.90	27 26
15.32	32	5.58	19 08	15.03	14	12.98	18 56	15.03	58	20.84	16 37	15.95	56	88.79	20 28	14.91	50	98.29	22 53
16.62	33	5.80	14 06	16.62	15	13.20	11 57	16.62	40 1	21.24	16 02	12.84	56	88.83	23 03	14.50	50	98.31	24 43
14.62	34	5.96	15 31	16.28	15	13.25	10 20	15.58	2	21.44	17 11	16.62	57	89.01	28 40	13.31	50	98.34	29 11
16.16	34	6.07	17 58	16.16	17	13.51	17 38	15.11	2	21.53	10 24	13.95	58	89.10	28 03	15.66	51	98.42	23 06
13.84	35	6.08	11 39	15.66	18	13.65	15 49	14.22	3	21.62	13 19	16.43	37 1	89.63	28 00	16.62	52	98.55	26 28
16.28	35	6.16	14 16	15.37	19	13.84	19 46	13.15	5	21.98	16 33	15.45	1	89.73	27 37	16.62	52	98.61	20 15
13.84	36	6.35	14 10	16.16	19	13.97	17 38	15.37	36 19	82.31	21 55	15.66	2	89.79	25 53	15.99	53	98.79	21 19
15.87	36	6.43	13 51	15.53	20	14.01	18 07	16.62	19	82.32	22 55	15.45	2	89.79	24 04	13.31	54	98.95	25 09
11.71	37	6.49	14 46	16.43	20	14.01	18 29	15.58	20	82.51	24 07	13.84	3	90.03	29 03	16.62	54	98.95	21 53
15.99	39	6.87	13 57	16.07	20	14.02	11 50	13.15	20	82.52	22 40	15.03	3	90.05	29 18	16.62	56	99.32	23 14
16.62	40	6.98	17 08	15.11	20	14.12	16 44	14.22	21	82.56	24 38	16.43	4	90.15	20 24	15.24	57	99.50	21 50
14.03	43	7.61	18 14	13.84	21	14.24	17 21	13.48	21	82.59	24 57	14.14	4	90.19	21 35	13.84	58	99.57	23 48
13.15	44	7.80	10 44	16.62	21	14.30	11 35	16.62	24	83.16	29 52	16.62	5	90.31	26 55	14.22	58	99.68	29 03
14.91	45	7.84	11 51	16.62	22	14.38	13 01	13.15	25	83.26	28 32	16.62	8	90.89	29 39	14.42	58	99.69	27 07
14.82	45	7.97	11 05	15.45	23	14.56	11 07	11.16	26	83.47	28 42	12.84	10	91.31	25 50	16.62	59	99.89	24 22
15.87	47	8.21	18 46	15.37	24	14.74	17 48	14.14	27	83.70	20 05	16.43	12	91.53	21 00	15.66	38 1	0.11	23 48
14.82	47	8.28	14 05	15.99	26	15.06	11 13	16.43	27	83.71	28 27	13.15	12	91.56	20 29	15.37	2	0.32	28 25
15.66	47	8.33	18 15	14.82	27	15.32	12 06	14.30	28	83.87	24 21	16.62	12	91.62	21 16	13.48	3	0.53	25 32
16.20	48	8.45	19 47	13.48	28	15.41	18 56	15.53	29	84.11	27 42	13.55	13	91.83	20 12	15.11	4	0.76	22 05
16.62	48	8.47	13 26	13.84	28	15.48	15 47	16.20	30	84.17	27 16	14.30	14	92.02	20 19	16.16	5	0.93	25 53
16.43	48	8.52	14 02	14.95	28	15.48	12 08	16.62	31	84.33	28 55	15.74	15	92.04	27 06	14.91	6	1.00	23 06
16.43	49	8.58	19 41	12.54	28	15.57	11 08	16.07	34	84.83	20 54	14.22	15	92.04	25 53	13.31	6	1.01	29 50
12.84	49	8.64	13 43	15.53	30	15.93	11 17	15.87	36	85.30	22 49	16.62	15	92.07	24 15	14.95	7	1.27	20 16
16.62	50	8.78	18 55	15.32	31	16.06	15 46	15.66	37	85.46	20 46	15.45	16	92.31	28 14	16.28	7	1.29	21 50
16.43	51	9.00	18 33	16.43	34	16.60	10 57	16.43	38	85.53	27 35	15.79	20	93.05	28 25	15.62	10	1.77	20 05
16.62	52	9.08	12 08	13.84	35	16.73	12 01	14.22	38	85.61	22 02	16.16	22	93.32	27 26	15.53	10	1.78	27 52
13.59	52	9.09	14 09	15.74	35	16.80	14 56	14.42	38	85.61	25 23	14.54	22	93.40	20 53	14.91	11	1.87	24 15
15.53	52	9.15	11 08	14.34	36	16.85	10 34	14.82	40	85.94	26 34	16.43	22	93.41	28 12	15.37	12	2.03	22 55
16.62	52	9.23	13 51	15.45	37	17.10	12 44	15.03	40	86.04	28 45	13.66	27	94.13	26 18	14.14	13	2.23	24 54
13.15	55	9.60	14 35	13.95	37	17.15	17 10	15.74	41	86.07	20 25	15.45	27	94.24	20 38	16.28	14	2.50	25 26
14.34	56	9.84	16 55	15.66	38	17.25	16 50	15.79	41	86.07	26 58	14.62	27	94.26	26 48	16.28	15	2.66	24 18
15.87	58	10.25	18 47	16.62	39	17.44	16 04	11.38	41	86.11	25 23	14.62	28	94.35	26 17	15.66	16	2.88	26 51
16.28	59	10.35	17 18	16.62	40	17.68	10 11	15.03	42	86.38	28 14	15.74	31	94.97	27 56	13.31	17	3.04	29 43
15.99	59	10.44	15 43	15.11	40	17.68	10 57	15.24	42	86.40	25 22	16.43	32	95.13	22 08	15.03	18	3.17	27 48
14.82	39 0	10.56	18 52	15.24	41	17.73	11 19	13.66	43	86.52	24 52	16.62	34	95.52	26 19	15.79	18	3.25	25 43
16.62	1	10.76	13 29	16.28	41	17.80	12 28	14.42	43	86.55	29 03	16.62	36	95.71	23 03	14.70	21	3.75	26 57
14.95	2	10.87	12 52	16.62	43	18.19	15 23	12.54	44	86.60	22 45	16.28	37	96.04	29 04	16.62	21	3.76	21 35
14.74	2	10.88	18 45	12.84	44	18.31	17 47	15.53	45	86.91	21 14	14.95	38	96.12	28 30	16.62	21	3.77	28 01
14.42	2	10.88	13 50	16.62	46	18.58	15 22	13.66	46	87.02	29 52	13.66	39	96.38	27 16	16.07	22	3.87	26 25
15.66	2	10.96	10 53	15.87	47	18.81	18 08	14.74	47	87.23	22 34	15.87	40	96.46	28 52	15.79	22	3.92	20 16
14.14	2	11.00	18 28	16.62	48	19.09	11 31	14.95	47	87.23	26 23	15.87	42	96.76	27 07	14.91	22	3.94	23 50
15.95	3	11.18	14 24	12.54	49	19.15	15 54	15.16	49	87.52	26 36	13.48	42	96.77	22 26	16.43	23	3.97	21 35
15.16	5	11.38	17 12	13.15	49	19.24	15 12	15.87	49	87.55	26 44	14.14	44	97.20	29 03	16.62	23	4.09	23 52
12.99	6	11.64	16 05	15.53	50	19.36	11 47	15.95	50	87.66	29 09	16.62	45	97.35	20 45	12.84	24	4.21	25 08
15.74	6	11.70	11 09	15.99	50	19.40	19 26	13.84	51	87.97	27 47	12.69	45	97.39	24 59	15.45	24	4.23	25 42
15.99	6	11.70	14 28	16.62	53	19.83	16 48	16.43	53	88.17	21 42	14.91	46	97.47	21 47	15.03	25	4.33	28 18
14.50	8	11.88	18 15	12.78	56	20.38	19 38	13.95	53	88.19	26 43	16.20	46	97.49	29 54	16.62	25	4.48	23 25

25 prec. + 98 sec. + 6′ 27″.

2^h Area 22. $+45°$

901—930				931—960				961—990				991—1001							
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′				
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″				
16.28	38 26	4.62	22 10	15.37	38 50	8.72	27 10	16.43	39 12	12.57	25 25	16.20	39 50	19.26	26 14				
16.62	27	4.80	26 03	12.39	50	8.80	24 59	14.03	12	12.65	21 08	16.43	51	19.53	22 25				
15.66	28	4.99	25 37	13.48	51	8.94	24 58	15.37	12	12.69	24 30	12.39	51	19.55	24 39				
16.62	31	5.41	27 44	15.53	51	8.95	21 42	16.62	13	12.87	23 45	15.45	53	19.77	22 05				
12.54	31	5.43	26 51	16.62	52	9.13	29 09	15.16	13	12.87	28 48	16.03	55	20.13	20 05				
16.62	31	5.49	27 27	16.07	53	9.24	21 14	15.99	14	12.90	28 15	15.79	56	20.27	22 11				
15.45	32	5.53	26 39	15.95	54	9.51	21 59	15.87	15	13.20	23 26	15.24	40 0	20.97	23 50				
14.50	34	5.95	24 50	15.95	54	9.56	26 01	15.16	16	13.25	20 45	16.62	0	21.13	27 45				
16.07	35	6.18	20 04	12.39	55	9.60	23 54	16.28	20	14.01	22 06	15.11	1	21.32	27 59				
16.16	36	6.37	24 55	14.34	55	9.62	25 44	13.31	23	14.52	29 02	14.95	2	21.44	29 20				
15.11	36	6.40	26 39	15.24	57	10.00	27 26	16.62	23	14.56	21 45	15.99	3	21.51	23 47				
16.16	38	6.60	27 54	15.24	57	10.08	28 54	15.95	23	14.58	27 25								
15.37	39	6.84	25 10	16.20	58	10.26	28 26	13.66	26	15.17	23 13								
16.16	40	7.02	23 48	15.58	59	10.35	21 04	14.14	29	15.69	26 43								
12.11	41	7.24	24 57	16.62	39 0	10.57	23 19	16.43	30	15.78	28 41								
13.31	41	7.26	24 22	16.07	2	10.82	25 21	16.43	32	16.10	22 35								
16.28	42	7.35	29 15	15.03	2	10.88	25 44	15.87	33	16.33	29 45								
14.42	42	7.39	23 05	15.11	4	11.21	23 57	15.95	37	17.05	29 27								
15.03	42	7.44	22 15	16.62	4	11.23	29 37	16.16	38	17.13	24 14								
16.62	44	7.66	20 59	16.62	5	11.38	20 12	15.66	38	17.26	28 17								
15.03	44	7.76	25 01	16.20	7	11.72	25 10	13.15	39	17.34	23 55								
14.34	45	7.88	29 27	16.62	7	11.74	26 10	15.95	40	17.46	29 39								
13.31	46	8.00	21 30	15.24	7	11.77	29 55	15.03	40	17.59	27 54								
15.03	46	8.05	21 45	15.03	9	12.03	27 45	16.62	41	17.79	21 25								
16.62	46	8.16	28 27	15.79	9	12.04	20 44	16.16	41	17.80	23 10								
14.11	47	8.17	22 07	16.28	9	12.10	26 40	13.31	43	18.11	28 18								
14.03	49	8.53	20 48	15.70	9	12.16	20 14	15.32	46	18.54	27 32								
15.03	49	8.59	23 26	16.62	9	12.19	27 17	13.84	46	18.69	24 18								
15.66	49	8.66	27 23	12.54	10	12.36	28 30	16.43	47	18.74	24 49								
15.74	49	8.68	27 03	16.43	11	12.48	22 46	12.69	49	19.15	23 51								

25 prec. + 98 sec. + 6′ 25″.

3^h Area 23. Centre for 1900: $3^h\ 39^m + 45°\ 0'$. $+44°$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.16	36 47	76.33	46 09	15.55	36 59	78.53	43 16	14.59	37 16	81.46	43 04	15.48	37 22	82.61	47 45	16.02	37 42	86.09	42 15
15.22	49	76.69	44 54	14.71	37 0	78.62	43 05	16.02	16	81.60	48 27	13.31	28	83.60	40 42	13.84	43	86.31	46 07
15.02	49	76.81	41 56	16.02	3	79.25	43 05	15.22	17	81.74	47 30	15.15	28	83.73	49 07	13.68	43	86.39	43 00
16.02	51	77.10	41 58	13.31	8	80.15	49 08	13.68	18	81.81	40 25	15.22	33	84.55	48 27	16.02	44	86.53	49 05
15.15	53	77.43	43 05	10.69	9	80.22	47 00	15.02	18	81.95	44 34	14.30	33	84.60	44 29	10.83	45	86.76	45 43
16.02	54	77.62	41 26	13.47	9	80.37	47 47	15.02	19	82.00	43 46	16.02	34	84.61	49 40	15.83	48	87.13	40 26
15.55	54	77.65	48 17	16.02	10	80.50	44 35	16.02	19	82.04	47 21	16.02	34	84.69	47 42	15.35	48	87.27	48 17
15.15	55	77.79	49 54	15.83	12	80.84	41 41	15.02	19	82.14	45 05	14.53	34	84.71	47 27	15.15	49	87.45	48 19
15.22	57	78.12	49 15	15.68	15	81.31	41 18	16.02	20	82.22	48 20	16.02	36	85.09	48 31	16.02	50	87.55	44 16
15.02	57	78.18	44 20	14.59	15	81.41	42 25	14.41	22	82.52	41 22	14.01	36	85.17	42 23	16.02	51	87.69	45 08

25 prec. + 104 sec. + 4′ 52″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
16.02	37 51	87.70	43 39	16.02	38 43	97.06	48 10	14.12	39 42	7.53	47 04	16.02	37 2	79.02	57 59	15.22	37 54	88.38	53 08
16.02	51	87.72	43 20	16.02	44	97.22	45 58	16.02	45	7.95	40 16	15.83	3	79.22	53 58	15.15	57	88.80	57 30
16.02	54	88.24	41 16	13.47	45	97.40	45 29	12.97	45	8.00	41 04	14.90	3	79.27	56 40	15.02	58	89.00	55 45
16.02	56	88.70	47 34	16.02	45	97.41	49 11	14.90	45	8.01	41 45	15.02	5	79.65	58 43	15.22	58	89.01	52 43
15.22	57	88.77	48 36	14.71	48	97.81	45 25	14.12	46	8.23	41 57	15.83	6	79.91	53 05	14.01	59	89.23	55 40
14.30	38 0	89.38	46 43	16.02	48	97.91	44 02	14.90	48	8.49	47 46	14.84	9	80.29	58 14	13.42	38 0	89.35	50 36
11.34	3	89.80	44 49	14.59	49	98.07	42 43	15.02	48	8.62	48 34	15.15	9	80.32	58 45	15.22	0	89.39	59 03
15.83	4	90.03	45 50	15.83	50	98.25	44 28	16.02	50	8.80	47 10	16.02	9	80.41	55 13	13.16	1	89.49	56 27
13.47	4	90.08	43 56	16.02	53	98.80	45 29	10.39	50	8.96	43 20	15.83	10	80.44	53 43	16.02	2	89.77	56 20
15.15	5	90.18	45 47	16.02	54	98.91	40 42	15.22	51	9.01	48 23	15.68	11	80.63	57 20	14.41	2	89.78	57 54
15.55	5	90.18	44 44	15.22	56	99.35	44 05	16.02	51	9.11	42 58	15.02	11	80.73	54 47	12.82	4	90.05	51 12
15.22	5	90.31	40 32	15.15	39 0	99.91	43 33	15.48	52	9.30	48 26	15.22	12	80.84	54 59	16.02	5	90.18	59 42
14.41	6	90.48	43 47	14.84	4	0.80	43 36	13.31	54	9.52	49 33	15.68	14	81.21	56 44	14.84	5	90.27	56 14
12.97	7	90.54	49 28	15.83	5	0.86	48 22	15.68	54	9.52	45 05	14.90	15	81.41	51 02	11.03	7	90.58	58 53
12.37	7	90.61	42 21	14.47	5	0.92	49 44	13.73	54	9.52	43 50	14.84	16	81.56	59 54	13.57	7	90.64	59 54
16.02	7	90.62	46 08	16.02	5	0.95	40 36	15.83	56	9.92	40 58	15.02	16	81.68	56 06	14.30	10	91.08	50 12
15.83	8	90.68	46 42	16.02	6	1.07	45 27	15.35	57	10.16	41 28	13.47	17	81.72	52 32	16.02	11	91.35	56 56
16.02	10	91.13	47 03	14.24	8	1.42	48 43	14.90	59	10.52	45 00	14.65	17	81.73	50 14	15.02	12	91.48	52 55
14.59	16	92.18	46 35	14.18	8	1.46	49 42	15.83	40 5	11.60	42 05	14.59	18	82.03	55 54	14.84	13	91.76	52 43
15.02	16	92.20	41 05	16.02	8	1.51	47 43	14.53	8	12.16	49 52	14.41	23	82.76	52 36	15.35	16	92.23	59 46
15.15	16	92.24	44 24	14.59	9	1.56	41 32	16.02	9	12.22	41 56	15.55	23	82.80	55 48	15.83	18	92.52	58 28
15.15	17	92.38	42 47	14.12	9	1.63	48 39	15.48	9	12.27	48 47	14.07	23	82.89	50 25	15.02	18	92.58	57 46
14.84	18	92.45	44 05	14.71	10	1.82	45 30	15.15	11	12.56	49 18	14.90	25	83.12	55 58	13.84	18	92.61	56 52
16.02	19	92.74	43 42	14.53	11	1.88	40 09	13.47	18	13.79	52 25	14.18	27	83.61	59 52	16.02	20	92.85	56 30
14.30	23	93.39	41 37	14.53	11	1.98	43 12	15.22	22	14.51	48 31	14.53	28	83.68	53 52	16.02	22	93.29	55 36
14.71	23	93.43	47 42	16.02	12	2.06	47 22	15.48	23	14.70	42 26	14.90	29	83.87	57 14	16.02	25	93.83	52 45
15.83	24	93.51	46 43	16.02	13	2.23	41 37	15.02	24	14.85	46 15	14.41	30	84.10	51 45	15.22	26	93.94	53 48
14.12	24	93.53	48 04	15.68	13	2.29	41 55	15.83	25	15.13	42 02	16.02	30	84.15	57 39	16.02	30	94.60	52 32
15.68	25	93.76	46 53	16.02	13	2.31	44 35	15.55?	25	15.15	42 20	14.01	31	84.30	55 12	16.02	30	94.62	53 01
11.47	26	93.87	41 20	15.22	15	2.70	45 07	15.48	26	15.27	40 41	15.83	32	84.46	57 08	15.83	32	95.04	59 38
14.90	26	93.88	42 35	16.02	16	2.84	46 25	13.84	26	15.27	48 32	15.68	35	84.90	50 38	14.53	34	95.34	56 57
15.48	26	94.00	40 44	14.01	18	3.21	47 54	16.02	28	15.62	49 35	15.02	35	84.93	53 33	15.83	35	95.61	58 59
14.01	28	94.32	45 51	16.02	19	3.39	48 15	14.41	30	15.89	47 11	16.02	35	84.99	51 17	15.15	36	95.82	51 02
15.68	30	94.62	47 19	15.02	21	3.65	45 52	12.97	36 46	76.30	55 20	16.02	37	85.24	50 38	15.68	37	95.97	58 55
16.02	31	94.83	47 52	15.83	21	3.70	41 57	15.15	47	76.39	57 51	16.02	37	85.34	59 18	14.53	38	96.03	51 58
16.02	31	94.87	43 56	15.15	22	3.99	47 54	14.07	48	76.63	50 24	15.68	38	85.41	58 58	14.24	39	96.22	58 12
14.90	31	94.92	43 28	15.68	26	4.65	41 11	14.24	48	76.65	53 00	15.02	38	85.44	52 26	14.30	40	96.44	52 54
15.48	33	95.24	49 21	14.84	26	4.71	47 45	15.83	48	76.71	56 46	16.02	39	85.68	57 59	14.30	40	96.48	53 36
14.84	33	95.27	41 56	14.84	27	4.79	43 19	16.02	51	77.11	51 03	11.97	39	85.71	53 36	15.55	40	96.51	55 02
14.41	34	95.42	40 15	14.71	27	4.80	48 12	14.41	51	77.12	53 42	14.30	39	85.73	54 32	16.02	43	97.07	56 11
16.02	34	95.44	44 54	15.35	27	4.83	44 54	16.02	51	77.13	54 56	12.73	39	85.73	58 58	12.17	44	97.16	51 57
16.02	35	95.51	46 23	12.82	32	5.62	40 26	15.68	51	77.17	50 06	15.22	42	86.21	56 00	13.84	45	97.34	57 10
15.02	35	95.64	40 06	15.15	33	5.91	41 37	14.84	52	77.41	50 10	15.02	43	86.31	50 46	14.30	46	97.56	53 56
14.53	36	95.75	41 46	13.57	33	5.93	48 48	16.02	53	77.51	51 34	16.02	43	86.36	54 21	15.22	49	98.13	53 20
14.59	38	96.00	44 04	12.73	34	5.95	46 20	11.97	55	77.86	50 59	16.02	44	86.50	54 31	14.90	50	98.32	53 02
16.02	38	96.15	49 31	12.82	37	6.52	46 06	15.02	58	78.33	56 21	11.40	46	86.98	59 02	14.30	53	98.75	51 57
14.24	38	96.16	40 14	16.02	39	7.00	47 03	12.17	58	78.37	54 08	15.48	48	87.18	58 40	15.22	54	98.86	53 35
15.15	39	96.27	40 04	15.15	41	7.21	43 58	11.36	37 0	78.68	50 38	16.02	48	87.28	51 14	15.35	54	98.88	54 10
15.83	40	96.37	44 34	16.02	41	7.33	40 17	14.65	0	78.82	50 22	14.90	53	88.19	56 19	16.02	54	99.01	54 21
14.59	40	96.45	44 25	16.02	42	7.47	42 16	16.02	1	79.01	57 35	12.37	54	88.26	55 15	9.62*	59	99.79	55 51

25 prec. + 104 sec. + 4' 50".

301—350				351—400				401—450				451—500				501—550			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$ / $y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.48	38 59	99.82	59 23	14.41	40 6	11.61	56 15	15.15	37 24	83.12	5 43	13.63	39 5	0.90	9 54	15.02	40 23	14.64	3 15
16.02	39 0	0.03	50 56	11.07	6	11.63	51 22	10.01	25	83.25	4 35	16.02	5	0.95	6 27	16.02	23	14.70	5 16
14.90	3	0.49	58 21	15.02	7	11.90	50 50	15.22	29	83.90	8 15	14.41	7	1.15	6 38	12.82	25	15.00	7 53
14.30	3	0.61	54 18	16.02	7	11.94	57 29	15.22	29	83.94	0 04	16.02	10	1.83	4 50	16.02	26	15.13	4 40
14.90	4	0.66	54 12	15.55	8	12.03	59 31	14.24	40	85.97	2 54	15.22	11	1.86	6 52	15.68	26	15.19	6 59
16.02	6	1.14	53 04	14.30	9	12.22	50 13	16.02	45	86.80	4 42	15.48	11	1.94	9 04	14.84	30	15.90	3 18
13.31	9	1.66	54 20	14.01	9	12.25	51 35	15.83	45	86.83	0 39	15.02	12	2.03	9 15	15.02	31	15.99	1 47
16.02	9	1.66	54 55	15.22	11	12.53	57 20	16.02	47	87.07	9 20	15.15	12	2.04	6 08	15.68	36 44	76.11	11 25
15.02	10	1.73	57 22	12.82	13	12.91	51 46	15.68	49	87.49	3 40	15.35	14	2.44	6 26	16.02	45	76.30	11 22
15.02	13	2.24	58 55	15.48	18	13.72	58 54	16.02	52	87.94	6 26	14.84	17	2.95	4 57	15.55	46	76.37	15 49
12.82	16	2.76	52 32	12.73	21	14.32	50 30	14.01	52	87.94	2 58	15.83	18	3.15	4 43	16.02	47	76.51	19 32
13.47	16	2.85	56 17	15.83	23	14.61	58 21	16.02	52	88.09	1 21	14.90	20	3.53	2 40	16.02	48	76.71	10 21
14.30	17	2.96	53 03	15.68	25	15.05	54 12	15.35	53	88.21	5 07	15.15	21	3.68	5 02	16.02	49	76.91	19 42
15.83	19	3.33	54 51	16.02	25	15.06	57 53	14.84	54	88.36	3 24	14.84	21	3.71	4 04	16.02	49	76.95	10 57
15.83	20	3.51	53 39	14.41	25	15.09	59 59	15.42	55	88.52	0 20	15.02	25	4.48	0 59	16.02	50	77.14	18 27
16.02	20	3.60	53 22	14.12	30	15.90	54 41	14.41	58	89.09	1 28	15.68	26	4.59	7 06	15.68	50	77.17	18 42
16.02	22	3.85	55 11	14.90	36 46	76.32	1 39	15.83	59	89.16	1 41	15.22	26	4.62	4 47	14.41	51	77.35	15 36
15.15	22	3.94	56 30	13.26	51	77.18	9 46	11.97	59	89.18	0 03	15.02	26	4.67	1 30	14.90	52	77.40	14 20
14.71	23	3.99	53 39	15.55	51	77.21	9 06	15.55	59	89.25	5 43	11.50	27	4.83	0 54	16.02	53	77.66	10 30
14.30	24	4.23	54 23	15.48	51	77.23	8 10	14.41	38 0	89.38	9 11	14.12	30	5.27	6 37	15.02	53	77.68	10 16
13.42	25	4.44	56 50	13.68	51	77.27	6 48	16.02	0	89.44	1 20	16.02	30	5.30	8 22	14.59	53	77.72	17 03
15.83	27	4.83	56 31	15.68	52	77.43	8 13	16.02	7	90.64	6 47	16.02	31	5.43	0 38	16.02	55	77.97	16 06
16.02	31	5.52	51 09	15.83	55	77.91	3 27	13.68	9	90.98	3 55	11.61	35	6.23	1 01	12.97	55	78.04	11 46
15.48	33	5.79	52 47	15.22	56	78.12	5 47	16.02	9	91.03	1 38	15.15	37	6.53	2 11	14.41	59	78.71	19 37
14.24	33	5.92	56 51	15.02	56	78.14	2 00	13.47	9	91.07	4 34	13.84	38	6.63	7 16	16.02	37 0	78.86	19 12
15.68	34	6.02	51 32	15.68	56	78.15	4 27	16.02	10	91.16	1 57	11.97	39	6.88	3 05	14.24	3	79.46	17 04
12.50	34	6.10	50 46	15.02	57	78.30	0 29	16.02	12	91.57	9 25	13.68	41	7.23	8 47	16.02	3	79.48	19 10
13.06	35	6.13	53 44	14.30	37 0	78.73	2 40	16.02	17	92.37	0 40	16.02	41	7.27	0 50	15.55	4	79.60	12 17
15.35	37	6.51	58 02	14.84	2	79.10	2 15	14.53	17	92.44	0 56	15.68	41	7.29	5 37	13.95	5	79.69	19 53
16.02	38	6.72	59 51	15.02	2	79.20	0 08	15.15	18	92.55	5 01	15.02	45	8.01	1 06	14.53	7	80.11	14 08
12.37	38	6.75	53 36	15.35	3	79.34	2 39	16.02	18	92.67	1 36	16.02	46	8.19	8 55	14.59	8	80.21	18 17
15.22	39	6.94	51 48	15.02	3	79.39	3 58	16.02	24	93.57	5 49	13.06	48	8.39	2 13	13.84	9	80.39	10 59
16.02	40	7.10	58 56	16.02	4	79.44	3 27	14.84	29	94.46	9 50	16.02	50	8.81	1 24	16.02	9	80.50	15 02
15.68	40	7.11	53 12	14.84	4	79.61	4 59	16.02	29	94.55	7 36	15.83	51	9.05	9 27	16.02	10	80.56	11 36
16.02	40	7.11	56 19	16.02	5	79.66	0 13	13.84	33	95.25	8 24	16.02	52	9.10	6 50	15.35	10	80.71	17 13
14.41	40	7.11	51 49	15.02	6	79.81	7 00	14.84	35	95.55	8 16	15.22	54	9.61	4 10	15.22	10	80.72	19 31
15.68	42	7.40	52 04	11.05	7	79.99	1 19	7.86*	35	95.58	2 22	14.59	58	10.15	4 02	15.48	11	80.89	11 56
14.41	43	7.58	59 05	15.22	7	80.04	1 54	13.84	37	95.95	5 38	16.02	59	10.46	0 20	15.15	12	80.98	12 36
13.31	44	7.72	53 46	15.02	8	80.28	5 41	15.55	40	96.49	6 19	16.02	40 1	10.71	8 16	15.15	14	81.27	18 24
16.02	44	7.82	55 03	15.55	9	80.43	6 12	12.17	41	96.60	9 18	12.37	9	12.14	8 28	16.02	15	81.47	10 54
13.84	46	8.22	50 45	16.02	10	80.66	8 35	14.90	41	96.63	6 42	15.68	9	12.25	8 47	14.53	20	82.37	10 56
12.37	49	8.62	53 05	16.02	13	81.11	6 49	16.02	44	97.13	7 37	14.78	14	13.10	9 53	14.78	23	82.99	16 03
16.02	51	9.03	56 20	14.90	15	81.44	0 40	11.00	47	97.75	6 40	16.02	15	13.21	8 05	14.30	24	83.01	18 52
16.02	55	9.72	55 55	11.97	16	81.60	8 51	16.02	49	98.14	8 24	15.48	16	13.35	7 50	14.24	26	83.39	14 53
14.12	55	9.80	52 47	16.02	17	81.78	9 36	14.84	52	98.65	8 12	15.15	16	13.38	6 17	15.48	27	83.71	17 03
13.84	57	10.02	59 21	14.59	18	82.00	9 50	15.68	54	98.91	8 08	16.02	16	13.50	4 12	16.02	28	83.78	12 56
14.71	40 1	10.87	55 16	14.78	18	82.05	0 07	16.02	59	99.74	3 58	14.30	18	13.69	9 52	14.41	31	84.33	13 44
14.24	3	11.21	52 15	15.22	19	82.12	8 05	14.12	39 2	0.35	4 57	16.02	19	13.90	1 56	14.41	32	84.48	12 52
16.02	5	11.51	56 30	16.02	20	82.29	1 37	14.71	3	0.52	0 43	14.41	20	14.08	4 47	14.90	33	84.61	10 10
12.59	5	11.57	54 44	16.02	22	82.79	0 21	14.24	4	0.62	3 09	14.71	23	14.59	2 26	15.02	33	84.61	17 16

25 prec. + 104 sec + 4′ 50″.

551—580				581—610				611—640				641—670				671—691			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.83	37 36	85.24	12 36	15.55	38 19	92.84	14 35	15.22	39 1	0.20	17 40	15.35	39 29	5.18	11 56	15.22	40 1	10.75	16 11
16.02	38	85.64	10 27	14.41	21	93.11	18 10	14.90	2	0.38	18 16	16.02	30	5.21	19 03	13.16	6	11.60	19 50
14.01	39	85.67	19 13	15.83	21	93.19	14 09	13.42	3	0.47	17 02	14.71	30	5.37	13 27	15.02	6	11.68	18 04
13.84	39	85.68	16 09	12.97	22	93.22	19 12	13.06	3	0.51	10 10	15.15	33	5.88	14 54	11.79	8	12.00	17 53
14.53	45	86.88	13 21	15.68	22	93.39	14 01	15.02	3	0.53	19 19	16.02	35	6.11	13 36	16.02	10	12.32	15 11
15.22	46	86.97	11 27	15.22	23	93.54	13 11	14.24	3	0.58	17 29	14.30	35	6.20	13 01	15.68	11	12.50	14 45
15.15	47	87.17	18 50	15.55	23	93.55	10 05	14.12	4	0.63	18 07	15.48	37	6.45	17 22	14.24	12	12.69	12 00
14.90	47	87.20	11 22	16.02	24	93.63	17 12	16.02	4	0.77	17 28	16.02	38	6.72	16 57	15.02	13	12.89	14 46
16.02	48	87.32	16 55	12.59	24	93.71	16 57	12.68	5	0.85	14 16	16.02	39	6.91	17 44	14.30	15	13.17	16 59
16.02	53	88.17	19 13	14.90	25	93.85	15 55	12.73	5	0.88	10 08	15.15	39	6.91	19 04	14.41	15	13.18	10 08
10.93	55	88.51	11 25	13.73	28	94.37	19 20	11.34	9	1.56	18 07	15.02	40	6.97	11 59	15.48	17	13.54	11 04
14.53	56	88.66	18 14	13.68	32	95.00	13 29	16.02	9	1.62	11 38	14.30	40	6.97	14 56	15.83	19	13.97	13 17
14.01	56	88.76	11 30	14.90	33	95.20	17 02	15.68	10	1.69	18 22	15.83	40	7.02	17 19	15.68	22	14.49	15 01
15.85	56	88.77	17 05	13.47	34	95.35	18 25	16.02	10	1.71	15 44	14.12	41	7.23	19 52	13.68	25	14.98	18 59
13.73	58	89.10	19 50	13.21	35	95.65	10 40	14.71	11	1.88	19 05	14.84	42	7.32	16 28	14.71	25	14.98	10 58
14.90	58	89.14	12 32	12.64	35	95.67	10 19	15.83	12	2.03	15 13	16.02	43	7.52	11 58	15.83	26	15.09	10 02
15.55	38 1	89.57	10 59	15.83	41	96.65	18 00	15.83	12	2.11	13 21	15.55	44	7.66	19 18	15.02	26	15.13	11 08
15.48	1	89.57	15 29	16.02	41	96.65	19 34	16.02	13	2.23	11 47	12.37	44	7.76	12 49	14.12	27	15.35	11 07
16.02	1	89.65	14 21	16.02	41	96.73	17 43	13.68	14	2.39	14 50	15.15	46	8.08	12 40	15.35	27	15.38	15 31
15.83	2	89.80	19 17	15.83	42	96.85	12 45	14.71	14	2.42	11 36	15.22	47	8.32	15 39	13.84	28	15.45	18 57
13.31	2	89.86	17 18	14.41	43	96.95	10 10	15.02	15	2.58	14 44	13.47	50	8.81	12 50	15.83	31	15.96	18 11
15.15	3	89.94	17 14	15.22	45	97.42	17 09	15.02	15	2.65	16 08	15.02	51	8.93	12 26				
15.83	4	90.16	12 37	16.02	47	97.78	11 47	15.22	18	3.08	16 57	15.15	53	9.25	17 01				
13.06	6	90.51	13 34	16.02	52	98.55	15 23	16.02	18	3.17	18 19	13.84	55	9.66	17 43				
14.78	6	90.58	10 04	7.36*	54	98.92	17 11	12.73	18	3.18	14 11	15.15	55	9.66	12 43				
14.41	12	91.46	10 27	14.24	54	98.94	19 24	15.55	19	3.32	12 28	15.48	55	9.70	19 02				
16.02	13	91.65	16 53	15.48	55	99.05	15 40	16.02	21	3.74	12 18	15.02	57	10.10	10 44				
16.02	13	91.72	10 38	13.73	57	99.49	19 34	12.50	23	4.07	18 39	15.68	58	10.18	11 07				
12.73	18	92.54	17 30	14.90	58	99.63	16 30	15.68	25	4.38	11 21	15.83	59	10.39	14 01				
14.84	18	92.54	13 46	16.02	39 0	99.95	11 58	15.55	29	5.17	17 52	15.83	59	10.44	19 01				

25 prec. + 104 sec. + 4′ 49″.

4^{h} Area 24. Centre for 1900: $4^{h}\,39^{m}$ + 44° 50′. + 44°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.85	36 46	76.21	32 20	15.22	37 16	81.44	31 43	13.73	37 47	86.98	37 18	14.49	38 4	90.12	37 02	12.97	38 27	94.13	32 32
14.35	47	76.36	36 31	16.08	19	82.11	36 11	15.22	49	87.29	32 05	11.67	10	91.11	38 29	16.08	29	94.52	34 34
14.90	52	77.22	32 12	7.78*	23	82.81	34 50	14.85	50	87.53	32 36	15.58	10	91.18	32 07	15.22	29	94.56	33 37
15.22	57	78.07	38 25	15.74?	26	83.28	37 06	15.58	55	88.42	33 45	15.22	13	91.62	37 49	15.89	30	94.59	39 03
15.51	37 0	78.54	34 15	16.08	28	83.56	39 44	15.22	57	88.83	38 03	16.08	15	91.99	38 37	12.97	31	94.86	34 13
16.08	1	78.74	30 14	15.15	28	83.70	30 27	16.08	38 1	89.54	33 29	15.74	16	92.25	36 15	16.08	33	95.24	39 36
14.73	2	78.90	30 53	15.51?	38	85.44	38 04	13.26	1	89.57	32 51	15.02	17	92.31	30 31	15.35	35	95.46	30 59
13.90	5	79.59	36 49	16.08?	38	85.46	38 11	12.77	2	89.61	39 14	14.73	20	92.95	35 45	15.74	37	95.85	36 22
14.59	7	79.89	36 55	14.26	39	85.50	38 33	14.85	3	89.83	30 29	16.08	21	93.06	35 32	13.18	37	95.93	31 33
15.89	16	81.41	34 45	15.22	46	86.87	34 04	15.02	4	90.08	37 47	12.19	26	93.86	32 40	16.08	39	96.21	37 05

25 prec. + 107 sec. + 2′ 56″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	*x*	*y*+50′	Int. magn.	α	*x*	*y*+50′	Int. magn.	α	*x*	*y*+50′	Int. magn.	α	*x*	*y*+50′	Int. magn.	α	*x*	*y*+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.58	38 40	96.52	37 12	16.08	39 24	4.23	39 04	15.74	40 19	14.00	39 33	15.15	37 54	88.19	45 57	13.39	38 55	99.19	44 54
15.15	42	96.72	35 58	14.73	25	4.45	35 44	15.98	19	14.13	37 18	15.58	55	88.52	47 49	11.51	58	99.71	48 58
16.08	42	96.82	31 58	14.63	26	4.58	32 30	14.49	20	14.28	35 46	16.08?	58	89.08	48 49	16.08	59	99.79	45 15
12.57	43	97.06	38 27	16.08	29	5.15	30 54	16.08	22	14.57	37 33	16.08	59	89.12	43 13	13.90	59	99.79	42 51
14.90	44	97.07	31 54	16.08	31	5.50	35 09	15.58	22	14.58	30 58	15.35	38 0	89.31	41 37	16.08	59	99.80	46 48
14.59	44	97.16	38 05	15.22	35	6.16	33 35	13.90	22	14.68	33 57	15.22	0	89.32	46 48	14.35	39 4	0.76	47 29
13.26	46	97.59	39 11	16.08	35	6.21	37 44	15.89	24	14.85	30 24	12.01	2	89.63	48 42	14.90	6	0.99	48 31
14.12	49	98.08	38 49	15.15	36	6.33	34 16	15.02	24	15.02	37 55	14.03	3	89.81	43 35	15.15	7	1.20	40 49
15.89	50	98.15	37 45	12.89	36	6.37	30 34	12.38	26	15.30	38 08	15.02	3	89.89	45 50	14.85	7	1.29	44 53
16.08	51	98.34	31 52	15.89	36	6.40	35 46	12.19	27	15.44	37 57	14.63	4	90.02	43 04	16.08	8	1.43	46 27
15.02	53	98.81	30 34	13.73	38	6.82	35 46	14.35	28	15.60	31 09	14.73	4	90.08	43 12	15.58	8	1.46	45 41
15.89	54	99.03	37 34	13.90	39	6.93	31 43	13.69	30	15.96	30 05	16.08	10	91.18	48 38	12.19	8	1.50	42 23
13.69	56	99.31	34 04	14.49	41	7.39	39 23	14.90	30	15.97	34 57	16.08	12	91.43	49 07	16.08	9	1.56	47 21
13.52	39 0	99.92	37 54	16.08	42	7.43	34 54	16.08	36 45	76.08	47 43	16.08	13	91.64	48 40	15.02	9	1.66	42 23
14.40	0	99.97	34 27	15.02	43	7.68	33 06	11.04	47	76.37	48 14	15.02	13	91.68	45 45	15.51	10	1.72	47 14
14.49	1	0.11	39 46	15.02	45	7.93	38 30	16.08	48	76.61	49 33	16.08	13	91.72	47 35	15.22	12	2.07	43 13
15.02	1	0.14	36 47	16.08	45	8.03	33 49	16.08	50	76.89	42 13	14.90	16	92.17	45 59	16.08	13	2.34	45 21
13.18	1	0.15	31 20	15.22	45	8.05	37 35	15.74	53	77.44	49 42	14.73	19	92.63	47 40	14.85	15	2.62	47 27
15.22	3	0.49	32 24	14.73	46	8.11	36 01	15.74	53	77.50	41 05	15.89	19	92.73	44 00	14.90	16	2.84	47 02
15.58	4	0.71	35 45	15.02	49	8.65	38 28	15.22	53	77.53	44 44	13.47	20	92.91	42 08	12.97	17	2.93	40 50
14.12	5	0.82	32 52	15.51	49	8.74	36 44	15.15	54	77.70	42 03	15.74	21	93.08	48 46	15.02	17	3.08	46 37
15.22	6	1.09	37 31	16.08	49	8.78	36 19	14.26	37 5	79.65	49 14	15.02	22	93.22	43 53	14.63	18	3.20	42 32
15.02	7	1.17	37 05	15.22	49	8.78	32 27	13.94	7	79.91	48 41	15.15	22	93.28	43 40	15.58	19	3.29	43 14
16.08	9	1.61	32 08	14.49	51	9.00	35 31	15.74	8	80.04	46 13	15.74	23	93.46	49 30	15.66	19	3.34	49 43
15.74	10	1.80	32 49	15.22	53	9.39	33 48	14.85	13	80.93	44 57	15.02	24	93.52	49 38	15.22	19	3.43	45 43
15.35	11	1.96	38 08	15.15	53	9.40	34 25	14.35	17	81.75	44 15	15.22	25	93.76	45 58	15.74	21	3.80	41 51
12.89	12	2.18	30 52	15.74	53	9.44	39 57	14.85	20	82.31	41 42	14.59	26	93.89	45 18	14.85	23	4.12	43 50
16.08	13	2.38	37 13	12.77	54	9.55	34 18	14.17	21	82.48	42 03	16.08	28	94.23	40 59	15.02	23	4.13	47 01
15.15	14	2.47	39 43	15.89	56	9.93	33 31	14.59	22	82.62	44 39	16.08	30	94.66	46 10	14.49	24	4.23	42 48
14.63	14	2.51	33 51	15.15	56	9.98	32 18	15.09	22	82.62	40 20	15.74	30	94.75	45 12	16.08	25	4.39	45 45
14.59	15	2.60	32 40	15.02	58	10.25	32 57	15.22	26	83.25	46 46	14.85	32	94.95	42 25	14.90	27	4.73	47 39
16.08	15	2.68	33 43	14.03	58	10.39	39 24	13.47	29	83.81	44 15	14.49	33	95.27	42 51	14.40	27	4.74	43 21
15.58	15	2.70	32 04	15.89	40 0	10.66	33 12	16.08	34	84.65	46 00	14.73	33	95.29	47 15	15.74	29	5.19	42 16
12.89	17	2.96	31 37	15.89	2	11.06	35 55	14.59	39	85.68	49 42	15.35	34	95.41	48 19	15.15	30	5.40	48 52
16.08	17	3.02	32 23	14.49	3	11.26	30 28	15.22	40	85.78	49 47	16.08	35	95.58	40 04	14.26	31	5.60	48 16
15.22	17	3.11	31 24	13.94	4	11.42	32 38	14.85	42	86.06	49 58	15.15	37	95.91	49 26	13.39	32	5.61	43 50
14.49	18	3.24	32 13	14.17	4	11.44	38 54	16.08	42	86.20	41 58	15.22	37	95.98	45 47	16.08	33	5.83	42 33
15.02	19	3.43	33 18	12.01	5	11.50	30 03	15.15	43	86.26	46 29	15.02	38	96.16	41 34	14.03	34	5.97	48 56
15.89	19	3.46	31 28	13.60	6	11.84	35 17	13.52	44	86.42	44 09	16.08	39	96.35	46 29	15.51	34	5.97	42 02
15.51	21	3.68	35 50	15.51	7	11.96	39 33	15.15	45	86.62	42 01	13.52	40	96.45	43 24	16.08	35	6.13	41 02
16.08	21	3.69	30 42	12.77	8	12.19	35 19	13.90	46	86.84	41 22	15.22	42	96.76	48 54	14.90	36	6.42	40 10
15.51	21	3.71	31 27	14.90	9	12.31	36 15	14.08	46	86.87	40 26	14.85	42	96.87	48 52	15.35	38	6.75	46 13
15.35	21	3.78	32 51	15.74	11	12.58	34 59	13.81	46	86.89	45 41	14.73	45	97.31	43 33	14.40	39	6.87	49 55
14.73	22	3.85	32 31	12.97	12	12.84	37 32	13.94	47	87.00	49 31	15.02	45	97.39	48 58	16.08	40	7.03	44 06
12.57	22	3.90	34 12	14.40	15	13.33	31 45	15.89	49	87.38	45 10	15.22?	46	97.61	47 38	16.08	40	7.18	48 51
15.22	22	3.91	33 23	15.02	16	13.47	36 19	16.08	49	87.47	49 49	16.08	47	97.68	44 02	11.84	42	7.53	44 55
14.17	22	3.93	31 10	15.51	16	13.48	34 56	16.08	50	87.57	46 21	14.85	50	98.19	46 01	15.74	43	7.69	40 45
13.10	22	3.97	35 31	14.49	17	13.69	39 46	15.35	51	87.70	42 59	14.40	53	98.72	48 55	14.59	44	7.84	49 40
15.15	23	4.03	34 26	12.97	18	13.87	32 43	12.77	52	87.85	47 52	12.77	53	98.79	48 36	15.89	44	7.88	49 11
11.67	23	4.11	31 34	14.90	18	13.90	34 36	14.49	53	88.16	43 12	16.08	55	99.04	40 10	16.08	45	7.96	47 28

25 prec. + 108 sec. + 2′ 54″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′ / y−10′	Int. magn.	α	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.85	39 46	8.20	43 44	11.51	37 8	80.12	54 05	11.51	38 37	96.00	55 04	14.49	39 37	6.59	55 33	16.08	36 48	76.69	2 05
16.08	49	8.63	47 56	15.89	11	80.66	58 30	15.43	38	96.10	59 30	14.49	38	6.80	53 14	15.51	50	77.12	7 34
15.89	50	8.82	49 05	12.01	13	81.08	50 56	9.81*	38	96.16	54 30	14.90	39	6.87	50 18	16.08	53	77.52	9 24
12.77	51	8.99	44 49	14.73	14	81.20	52 47	15.02	41	96.59	58 34	15.58	40	7.17	56 39	16.08	53	77.57	5 47
14.63	51	9.01	41 49	14.31	14	81.22	59 34	16.08	45	97.28	56 43	14.63	42	7.44	52 19	9.43*	53	77.65	3 07
14.26	53	9.33	41 42	15.22	15	81.39	57 46	13.94	48	97.87	58 50	15.89	43	7.60	56 24	16.08	55	77.92	6 32
15.02	54	9.62	41 32	14.49	15	81.41	56 48	16.08	49	98.01	53 55	14.59	43	7.62	59 58	13.18	56	78.13	3 15
16.08	56	9.86	46 53	14.85	18	81.96	55 01	13.94	50	98.23	53 33	16.08	43	7.64	56 34	14.49	37 3	79.30	9 35
14.85	56	9.93	40 41	14.26	24	82.98	56 46	15.22	53	98.71	58 35	15.51	48	8.47	55 36	15.22	6	79.79	0 39
16.08	57	10.04	45 19	14.68	25	83.20	50 28	15.74	53	98.80	53 25	14.90	50	8.82	50 18	15.22	7	80.00	3 47
16.08	58	10.36	48 01	15.35	33	84.52	59 44	13.26	53	98.84	50 37	16.08	50	8.87	57 33	14.59	8	80.29	4 24
16.08	59	10.42	40 24	15.22	34	84.74	50 02	16.08	54	99.02	54 00	16.08	54	9.51	52 34	16.08	10	80.55	3 02
15.51	40 1	10.80	47 43	14.85	35	85.01	53 49	12.38	55	99.02	50 37	16.08	55	9.71	51 46	14.03	10	80.59	2 34
15.22	1	10.81	48 19	16.08	38	85.40	50 43	15.58	56	99.33	52 18	16.08	55	9.73	58 24	15.15	10	80.65	1 51
15.51	2	11.06	40 19	16.08	39	85.57	51 11	15.22	57	99.55	59 42	15.58	55	9.74	56 49	14.85	11	80.75	4 56
12.77	3	11.21	44 31	16.08	40	85.77	51 23	15.02	58	99.57	58 11	14.35	55	9.78	53 18	15.22	14	81.28	9 15
13.26	4	11.36	46 51	16.08	40	85.79	56 13	15.22	59	99.81	56 09	14.03	56	9.82	55 25	16.08	19	82.09	4 00
16.08	4	11.41	43 03	14.17	40	85.83	51 32	15.02	59	99.86	59 57	15.58	56	9.90	50 23	16.08	23	82.96	0 07
14.49	6	11.73	40 40	15.51	40	85.88	57 02	15.02	39 0	0.00	55 37	14.85	56	9.93	54 49	12.89	30	84.13	2 04
14.40	7	11.84	48 15	15.02	41	85.96	56 32	15.02	0	0.01	57 30	15.15	58	10.34	52 46	16.08	31	84.29	8 18
14.49	7	11.96	49 07	14.90	45	86.64	53 52	15.02	2	0.39	59 02	14.63	59	10.47	58 52	16.08	34	84.78	6 44
14.85	8	12.05	41 37	16.08	45	86.75	51 58	14.59	3	0.49	51 21	16.08	40 0	10.69	51 51	15.22	40	85.88	6 07
16.08	8	12.13	43 43	16.08	46	86.82	50 35	14.12	4	0.74	58 56	16.08	1	10.76	52 32	13.18	41	86.13	1 42
14.26	8	12.16	46 26	15.89	48	87.26	52 53	16.08	5	0.84	55 10	16.08	2	10.93	55 49	16.08	44	86.51	5 24
14.40	9	12.18	49 56	15.58	50	87.59	58 17	16.08	6	0.99	57 28	13.18	2	10.97	53 08	15.89	44	86.57	3 06
13.26	9	12.27	45 39	15.89	51	87.83	52 34	15.35	6	0.99	53 25	16.08	3	11.12	53 41	13.81	44	86.59	5 45
15.74	10	12.35	43 05	15.15	55	88.44	51 21	15.35	6	1.10	54 43	16.08	8	12.01	56 40	16.08	46	86.93	0 48
16.08	12	12.73	43 22	11.35	56	88.67	55 31	14.49?	9	1.57	55 07	15.89	8	12.01	54 29	13.90	49	87.50	2 19
14.59	12	12.83	48 32	16.08	57	88.76	51 23	15.22	9	1.58	57 41	15.74	8	12.07	51 02	15.58	49	87.54	6 19
13.47	13	12.89	44 45	15.15	58	89.06	55 14	15.02	9	1.64	54 09	14.73	11	12.57	59 11	16.08	54	88.28	0 52
14.73	13	12.93	49 38	12.01	38 3	89.92	51 04	15.22	10	1.80	54 33	15.02	12	12.70	53 50	16.08	38 0	89.43	2 23
14.35	19	14.09	48 27	12.19	5	90.21	51 28	14.40	11	1.90	56 23	15.89	12	12.73	56 53	15.02	4	90.06	5 56
15.22	20	14.22	41 50	13.73	7	90.61	59 03	15.51	11	1.98	51 49	16.08	13	12.90	53 31	14.85	5	90.37	7 10
14.40	22	14.53	44 01	14.68	8	90.84	59 52	14.63	15	2.59	58 50	14.35	13	13.00	57 43	15.89	7	90.57	2 00
15.58	22	14.61	40 52	15.74	9	90.97	55 33	16.08	15	2.63	52 12	15.15	14	13.05	58 26	15.22	7	90.65	3 56
15.35	23	14.74	43 56	14.12	9	91.05	55 47	15.58	16	2.79	56 41	16.08	14	13.08	53 51	14.73	8	90.89	2 03
15.22	23	14.80	43 21	11.51	16	92.20	50 28	14.90	18	3.23	56 12	15.89	15	13.28	54 29	15.58	11	91.38	9 50
15.02	24	14.92	46 28	16.08	16	92.21	50 56	14.90	18	3.28	54 29	12.97	17	13.60	51 56	15.22	11	91.38	6 18
14.63	25	15.04	43 34	15.89	19	92.79	59 24	14.49	20	3.59	55 54	15.89	17	13.69	54 09	14.59	16	92.24	3 08
15.02	26	15.28	48 15	13.90	21	93.11	51 12	12.89	25	4.37	54 05	15.22	21	14.37	53 43	15.89	17	92.33	4 12
15.89	26	15.31	48 36	16.08	22	93.21	52 06	15.22	26	4.66	54 49	15.89	23	14.62	58 17	15.02	19	92.83	8 50
15.22	26	15.34	46 13	14.90	22	93.24	51 40	15.02	26	4.67	59 24	16.08	23	14.72	53 55	15.22	20	92.90	2 04
16.08	27	15.44	41 07	14.73	24	93.67	56 29	15.58	28	5.03	54 31	14.54	27	15.40	50 17	15.58	22	93.26	5 01
14.49	27	15.48	47 23	15.15	24	93.69	50 31	14.59	30	5.24	53 00	13.90	27	15.44	54 52	16.08	23	93.43	7 55
16.08	28	15.63	41 03	15.89	31	94.83	50 25	15.89	30	5.30	50 14	12.57	28	15.59	53 33	16.08	23	93.44	7 26
14.73	30	15.92	45 43	15.15	32	95.10	55 13	10.42	31	5.44	59 38	14.85	28	15.65	51 52	15.02	24	93.60	0 41
15.51	37 2	79.05	52 47	12.77	33	95.24	54 02	14.63	33	5.76	54 08	15.58	29	15.78	58 45	15.22	26	93.93	0 31
15.51	4	79.47	51 41	14.35	36	95.74	52 25	15.51	33	5.80	58 47	15.89	30	15.86	52 11	14.90	26	93.97	6 18
16.08	5	79.73	56 07	15.35	37	95.86	58 55	15.15	34	6.06	58 00	15.15	36 44	76.02	5 39	15.22	26	94.04	6 44
15.22	6	79.84	54 30	15.02	37	95.87	59 07	14.49	35	6.23	58 04	15.02	47	76.43	3 10	14.90	26	94.08	7 51

25 prec. + 108 sec. + 2′ 54″.

4^h Area 24. + 45°

551—570				571—590				591—610				611—630				631—637			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.90	38 28	94.39	2 55	15.58	38 58	99.68	4 20	15.51	39 19	3.33	4 48	14.73	39 51	8.93	3 28	9.77	40 25	15.00	7 07
15.15	29	94.49	2 38	14.73	39 0	99.93	5 32	16.08	20	3.50	8 32	16.08	51	9.06	0 55	15.43	27	15.29	0 12
15.51	31	94.92	8 26	15.35	0	99.94	9 59	16.08	20	3.57	5 43	16.08	55	9.69	2 11	12.38	28	15.54	9 00
16.08	32	95.07	6 58	15.02	1	0.20	0 31	13.94	21	3.75	8 27	12.01	58	10.30	2 45	16.08	29	15.68	2 04
16.08	34	95.49	0 50	14.85	4	0.64	9 15	15.74	25	4.33	9 16	16.08	40 0	10.52	6 00	12.38	29	15.71	8 10
14.31	36	95.78	0 24	14.49	4	0.66	5 07	15.89	26	4.59	3 27	16.08	1	10.81	8 58	9.08	29	15.76	0 37
14.73	37	95.94	7 01	15.74	4	0.67	8 53	14.90	26	4.61	8 42	15.51	5	11.41	5 12	14.40	31	15.98	4 59
14.63	38	96.07	8 11	13.69	4	0.70	1 28	14.85	26	4.63	2 57	16.08	5	11.41	0 20				
11.84	38	96.07	3 26	15.15	5	0.81	5 18	14.90	34	5.96	2 14	14.59	6	11.67	2 55				
16.08	40	96.50	0 57	15.02	6	1.09	0 42	15.15	35	6.13	7 01	14.59	6	11.73	1 45				
14.63	44	97.13	1 30	13.18	6	1.10	5 25	15.02	37	6.53	0 20	13.39	8	11.94	4 49				
16.08	44	97.21	0 50	14.59	7	1.25	7 47	16.08	37	6.59	0 28	12.89	9	12.24	9 02				
15.15	45	97.33	4 03	14.90	9	1.57	0 35	15.51	39	6.82	4 47	13.60	11	12.59	6 36				
16.08	46	97.44	3 00	16.08?	12	2.08	0 57	15.22	42	7.37	9 16	15.22	12	12.66	0 49				
15.02	50	98.27	1 10	15.74	13	2.29	3 33	15.02	46	8.18	0 44	15.02	14	13.04	4 16				
13.90	51	98.42	4 36	15.35	14	2.42	3 47	16.08	47	8.37	3 12	15.74	14	13.12	0 43				
15.89	51	98.43	2 19	14.90	14	2.56	4 35	15.51	48	8.48	7 46	13.73	20	14.04	2 12				
14.49	55	99.07	3 06	15.22	16	2.81	4 32	16.08	50	8.81	4 59	14.85	21	14.25	9 17				
15.22	55	99.19	6 16	14.40	17	3.02	7 06	16.08	50	8.87	3 09	14.17	21	14.25	2 10				
15.89	58	99.58	0 20	14.90	19	3.30	9 04	14.49	50	8.91	5 34	12.38	21	14.35	6 53				

25 prec. + 108 sec. + 2′ 53″.

5^h Area 25. Centre for 1900: 5^h 37^m + 44° 50′. + 44°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.88	35 31	84.07	31 14	15.69	36 6	90.32	32 42	15.22	36 26	93.93	39 07	15.88	36 46	97.58	37 45	15.54	37 11	1.90	38 31
12.03	34	84.66	37 15	15.34	7	90.65	37 08	14.93	26	94.04	36 07	13.91	48	97.81	38 06	13.29	13	2.36	33 23
15.14	34	84.70	36 48	15.88	8	90.66	36 51	15.22	27	94.17	37 56	12.87	48	97.81	33 15	15.42	14	2.43	38 02
15.88	39	85.57	30 26	14.11	9	90.93	32 22	14.93	28	94.31	37 31	15.88	52	98.63	33 10	15.14	20	3.61	38 32
15.88	40	85.81	38 59	14.93	9	90.96	32 15	15.88	28	94.34	35 51	13.70	55	99.19	38 33	14.61	22	3.97	38 36
14.85	44	86.49	36 20	15.88	9	90.97	37 46	15.88	28	94.34	34 18	13.62	56	99.24	31 03	15.88	24	4.28	39 05
14.81	46	86.85	35 58	14.52	11	91.35	30 22	15.69	31	94.82	35 23	14.85	57	99.41	30 05	14.32	26	4.66	33 53
15.88	50	87.55	36 02	14.52	12	91.41	38 37	15.34	32	94.94	39 01	14.32	57	99.50	32 30	15.88	27	4.86	38 29
15.88	51	87.68	32 15	15.88	12	91.54	36 21	15.54	32	94.95	33 09	14.03	58	99.67	37 28	15.88	28	4.92	35 43
15.34	54	88.27	38 34	13.70	13	91.68	34 16	13.91	33	95.16	33 43	15.88	58	99.70	36 36	12.25	32	5.76	32 27
14.93	55	88.38	33 44	13.08	14	91.84	37 23	12.87	33	95.28	39 25	14.20	37 1	0.10	32 47	15.88	34	5.96	30 16
15.02	56	88.62	30 27	15.26	15	92.01	36 55	15.88	34	95.33	33 53	15.22	1	0.23	38 11	11.13	34	6.09	39 30
15.22	56	88.68	34 55	15.88	15	92.02	32 23	15.46	36	95.65	38 32	14.65	2	0.31	31 32	14.61	36	6.38	34 21
14.44	57	88.85	33 41	15.34	18	92.46	32 56	12.67	37	95.86	37 39	15.88	2	0.44	31 43	14.61	37	6.58	33 48
15.88	58	89.01	31 12	14.93	19	92.65	32 57	15.88	39	96.17	30 43	15.02	4	0.64	38 20	14.40	37	6.64	32 42
14.44	36 0	89.35	31 25	15.88	21	93.04	37 36	15.88	40	96.49	30 51	15.34	5	0.85	30 18	15.14	38	6.73	34 51
14.81	1	89.46	38 46	15.14	23	93.36	35 21	14.93	43	97.04	37 17	15.54	5	0.92	30 07	15.02	39	7.01	33 06
14.61	2	89.73	30 04	13.50	23	93.47	37 22	14.85	44	97.11	30 36	13.42	6	1.04	32 23	15.22	41	7.23	31 20
14.85	5	90.12	33 09	15.22	24	93.66	32 39	14.32	45	97.24	31 18	14.44	6	1.04	36 26	15.88	41	7.31	34 05
15.88	5	90.26	31 42	15.14	25	93.70	36 10	15.88	45	97.25	33 18	14.81	7	1.27	30 28	12.67	41	7.31	39 01

25 prec. + 110 sec. + 0′ 51″.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.54	37 41	7.35	32 55	14.40	39 4	22.13	37 17	15.88	36 45	97.28	46 35	15.54	38 28	15.57	42 35	15.46	37 24	4.30	50 26
14.61	42	7.46	38 05	9.89	5	22.17	33 21	15.26	45	97.40	45 22	15.88	29	15.82	40 02	14.44	27	4.72	58 27
15.54	43	7.70	37 55	15.34	10	23.08	31 33	14.32	47	97.64	49 25	15.14	31	16.25	49 05	14.81	27	4.84	55 23
15.88	45	7.92	33 39	14.73	35 30	84.05	43 23	15.30	47	97.66	49 50	15.42	32	16.25	41 26	15.88	27	4.86	53 15
15.88	45	7.99	31 35	15.26	30	84.09	46 57	13.50	50	98.26	42 13	15.54	32	16.34	46 04	14.20	28	5.03	55 20
15.69	45	8.08	32 26	15.26	32	84.39	45 01	15.88	51	98.41	43 03	15.88	35	16.79	41 32	15.88	28	5.04	52 26
14.85	48	8.51	35 07	15.69	35	84.81	40 14	15.54	52	98.58	41 53	15.42	35	16.88	45 30	14.61	30	5.25	55 51
15.34	48	8.57	32 34	12.46	36	85.11	41 23	15.88	53	98.76	45 45	11.61	36	16.97	49 56	14.73	30	5.26	53 53
14.03	49	8.77	33 12	13.79	37	85.23	48 42	14.81	54	98.87	48 12	14.81	37	17.19	47 35	15.46	33	5.91	57 53
15.88	50	8.84	37 28	13.58	38	85.48	43 54	15.14	37 4	0.64	40 54	15.88	45	18.60	47 33	13.70	35	6.19	53 45
13.70	53	9.40	37 04	14.44	39	85.54	42 08	15.69	4	0.77	44 02	12.33	49	19.40	49 58	13.29	36	6.45	55 28
14.20	57	10.18	31 09	7.40*	40	85.85	48 06	14.65	5	0.85	41 07	7.77*	52	19.90	44 32	15.22	39	6.85	55 28
14.40	38 0	10.65	31 14	13.79	47	86.95	43 37	14.24	5	0.88	46 33	15.54	52	19.92	48 06	15.88	39	6.97	51 51
15.88	1	10.82	38 34	15.22	47	87.06	48 32	13.79	5	0.94	43 45	13.21	57	20.80	43 41	15.69	40	7.04	53 45
15.88	4	11.36	33 34	15.69	49	87.43	49 38	15.22	7	1.17	40 16	15.88	58	20.87	42 23	15.88	40	7.14	52 42
12.87	5	11.62	37 38	15.88	49	87.44	40 14	15.02	10	1.68	44 04	15.54	39 0	21.19	42 35	15.22	40	7.15	50 57
13.58	7	11.87	39 36	15.34	50	87.50	43 06	15.42	10	1.84	41 46	14.77	1	21.47	49 54	14.93	41	7.33	54 14
15.54	8	12.04	32 15	15.46	50	87.65	46 58	15.88	12	2.06	45 09	15.54	15	23.96	44 11	14.81	43	7.68	52 18
13.58	10	12.38	37 53	15.34	52	87.88	48 41	15.34	13	2.26	47 44	13.91	35 31	84.18	59 29	15.88	46	8.11	55 38
14.44	11	12.58	38 47	15.88	36 1	89.58	44 23	15.02	17	3.09	47 03	14.73	38	85.54	59 16	12.46	48	8.53	50 08
14.61	11	12.62	38 32	15.06	2	89.73	48 27	12.46	18	3.20	43 21	14.61	39	85.59	52 33	15.69	51	9.10	53 39
15.88	11	12.70	38 45	15.88	2	89.77	41 48	14.93	18	3.25	42 24	15.88	41	85.98	54 10	14.32	52	9.18	50 54
14.73	12	12.90	37 55	15.02	3	89.90	45 13	15.69	20	3.54	44 24	14.24	44	86.62	56 29	15.42	53	9.30	53 52
14.11	13	13.06	30 38	15.06	3	89.96	43 16	15.22	20	3.66	41 54	15.54	47	87.00	55 20	15.88	54	9.52	55 57
15.88	18	13.90	37 54	15.88	5	90.23	41 47	14.93	22	3.90	43 54	15.26	51	87.74	54 54	15.88	55	9.73	54 45
15.88	18	13.91	34 22	15.42	8	90.70	44 04	15.02	23	4.15	42 09	14.40	58	89.05	54 43	12.87	55	9.74	55 35
15.26	19	14.00	33 08	15.88	9	90.97	43 42	9.17*	24	4.29	47 39	15.34	59	89.15	52 05	15.88	57	10.01	51 24
14.81	21	14.47	34 06	15.88	10	91.09	43 04	15.88	30	5.30	47 41	15.88	36 8	90.80	59 53	15.26	58	10.34	52 00
15.26	22	14.61	32 52	13.70	12	91.40	47 26	15.30	36	6.33	40 26	15.69	10	91.16	55 40	15.38	38 1	10.74	50 02
15.06	23	14.72	31 54	15.88	12	91.52	48 13	13.99	36	6.38	48 11	14.61	11	91.37	55 59	15.88	1	10.78	53 57
12.67	23	14.73	35 13	15.34	15	91.99	43 24	15.88	39	6.86	47 30	15.88	13	91.69	55 35	15.50	1	10.88	59 42
12.46	27	15.53	39 01	15.69	15	92.01	40 28	15.88	43	7.66	48 40	15.46	17	92.44	59 43	15.69	4	11.30	59 41
14.32	28	15.66	35 20	15.26	19	92.73	48 27	15.54	47	8.31	41 37	13.58	26	93.90	51 10	14.57	5	11.46	50 24
10.99	28	15.69	34 50	13.08	19	92.80	49 33	9.15	53	9.37	41 25	14.85	26	93.99	55 33	14.73	6	11.71	52 23
13.42	28	15.71	39 05	15.69	20	92.82	42 23	15.88	56	9.95	47 23	14.44	26	94.01	51 52	15.34	9	12.21	58 46
15.88	30	16.08	36 54	15.14	22	93.19	41 53	15.26	38 0	10.73	44 20	14.85	27	94.16	56 12	15.88	10	12.44	58 29
15.88	31	16.16	31 15	15.42	23	93.33	40 27	15.22	3	11.19	44 41	14.93	28	94.30	57 16	15.06	12	12.72	57 17
15.69	31	16.21	30 07	15.88	23	93.35	43 42	15.69	7	11.82	45 08	15.88	28	94.35	55 18	15.22	12	12.74	55 20
14.65	31	16.27	34 46	15.88	23	93.36	49 11	15.54	7	11.86	46 04	15.88	28	94.35	54 18	15.69	21	14.32	57 40
15.34	37	17.28	38 55	15.88	25	93.70	45 44	15.69	7	11.87	45 49	15.88	29	94.44	54 30	14.81	22	14.56	58 17
14.85	37	17.30	37 45	15.88	26	93.97	46 12	14.40	9	12.20	45 29	15.69	35	95.64	52 04	15.88	31	16.15	57 40
15.88	43	18.27	32 53	13.21	27	94.09	45 07	15.88	10	12.41	44 09	15.06	37	95.93	50 55	15.88	33	16.47	57 31
13.29	47	18.96	31 13	10.53	31	94.92	44 27	15.69	13	12.90	48 31	14.85	41	96.71	56 16	13.46	34	16.56	50 24
15.22	48	19.22	34 32	15.88	33	95.20	45 28	14.32	16	13.46	49 42	13.99	44	97.09	51 27	14.65	34	16.63	57 33
15.54	50	19.66	35 36	14.81	33	95.28	46 26	15.88	16	13.49	49 09	14.20	46	97.49	56 02	15.34	44	18.38	56 05
13.29	51	19.85	31 45	15.88	35	95.48	45 52	15.88	16	13.51	41 13	15.88	46	97.59	57 58	15.69	53	20.02	58 03
15.88	52	19.94	39 14	14.52	36	95.69	48 47	13.62	21	14.35	46 54	14.61	37 2	0.37	59 28	14.52	54	20.25	52 40
15.69	55	20.46	33 44	15.88	39	96.28	44 46	15.42	22	14.60	42 06	13.08	7	1.23	58 25	14.61	54	20.27	55 59
12.25	39 0	21.29	39 01	13.29	40	96.43	44 06	14.93	23	14.82	49 21	13.99	17	3.09	55 59	14.20	55	20.30	54 09
14.61	2	21.73	34 56	15.88	41	96.60	41 54	15.88	25	15.11	46 03	13.08	18	3.26	57 56	15.88	55	20.39	56 31

25 prec. + 110 sec. + 0′ 49″.

351—380				381—410				411—440				441—462			
Int. magn.	a	x	$y+50'$ / $y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
12.87	38 57	20.76	52 40	15.88	35 59	89.24	8 18	15.22	36 49	98.07	2 43	15.88	38 0	10.65	2 59
15.88	57	20.77	57 54	12.03	36 1	89.61	8 50	15.88	52	98.55	5 09	14.11	2	10.89	4 50
15.88	58	20.81	56 14	15.88	2	89.80	4 36	15.88	57	99.44	8 15	15.88	2	11.00	3 27
14.81	58	20.96	57 17	11.82	3	90.00	1 14	15.88	58	99.66	8 54	15.88	10	12.36	6 17
14.11	39 0	21.26	55 03	12.03	3	90.02	6 10	15.06	37 0	99.99	7 17	13.70	10	12.37	3 16
15.88	0	21.27	55 27	15.22	5	90.22	5 09	13.42	0	0.08	7 48	15.42	11	12.53	6 40
15.54	0	21.28	56 57	13.29	6	90.41	1 29	15.42	1	0.23	7 44	15.34	25	14.94	5 40
15.46	2	21.55	52 59	15.88	10	91.10	9 00	15.42	4	0.62	4 09	14.93	28	15.45	3 18
12.67	6	22.25	54 16	14.24	11	91.28	6 27	11.82	4	0.72	8 03	14.52×	31	16.01	8 27
12.46	6	22.39	54 33	15.06	11	91.31	4 58	15.88	5	0.82	3 47	11.82	32	16.24	9 18
14.89	7	22.52	59 37	11.11	19	92.77	5 02	13.50	15	2.64	7 09	15.88	34	16.53	3 43
15.69	11	23.12	52 05	14.61	20	92.88	4 14	13.83	18	3.19	4 07	15.88	38	17.29	4 33
15.54	35 30	84.11	1 58	13.99	20	92.97	0 40	15.88	20	3.47	2 28	12.87	47	18.96	1 00
14.32	32	84.39	6 56	15.34	20	93.02	2 26	15.88	20	3.61	1 30	12.25	48	19.12	7 45
15.88	34	84.80	2 00	12.87	21	93.07	8 47	15.54	21	3.80	9 35	14.32	49	19.20	4 26
15.54	34	84.91	5 15	13.29	21	93.14	0 32	15.88	25	4.45	6 50	14.85	54	20.05	6 34
13.37	35	84.94	8 17	12.87	23	93.40	6 03	14.11	30	5.38	6 09	15.42	54	20.11	8 45
15.02	41	86.01	7 49	15.88	28	94.27	1 42	15.06	32	5.61	6 16	14.11	39 0	21.27	9 07
15.22	41	86.10	0 40	14.44	29	94.47	1 40	11.61	41	7.20	2 44	15.42	2	21.54	5 09
15.88	45	86.80	7 49	13.91	29	94.58	2 53	15.06	41	7.21	0 41	14.11	4	21.89	7 13
14.73	48	87.36	9 27	15.88	30	94.67	1 52	15.88	41	7.25	5 45	25.69	8	22.63	5 11
15.46	51	87.78	2 20	15.69	31	94.88	5 29	14.40	43	7.56	0 19	15.88	14	23.57	3 18
15.88	51	87.84	1 10	15.54	32	95.03	2 07	15.88	44	7.70	7 23				
14.85	51	87.89	8 17	15.88	34	95.40	7 19	15.34	44	7.83	8 17				
14.81	53	88.25	3 15	15.88	35	95.61	1 10	15.46	47	8.22	5 27				
15.88	55	88.60	0 43	12.67	37	95.95	8 18	15.88	51	9.03	5 24				
14.24	56	88.75	4 28	15.88	38	96.08	7 36	15.22	54	9.48	9 43				
14.32	58	89.02	7 37	15.02	42	96.74	8 13	15.88	54	9.61	7 50				
15.14	58	89.11	5 16	15.88	42	96.76	5 19	10.41	57	9.98	9 25				
13.91	59	89.19	3 09	15.46	45	97.43	0 52	15.88	38 0	10.56	2 34				

25 prec. + 110 sec. + 0′ 50″.

6^h Area 26. Centre for 1900: $6^h\ 36^m + 44°\ 50'$. + 44°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
12.46	34 28	83.54	33 58	15.00	34 45	86.70	31 08	15.13	35 7	90.57	35 07	13.82	35 28	94.38	36 22	14.38	35 46	97.49	33 18
13.65	28	83.66	36 49	14.72	48	87.17	34 42	13.30	10	91.19	38 48	13.95	32	95.02	37 32	14.51	47	97.63	34 52
13.65	29	83.71	31 58	13.73	49	87.35	30 13	15.55	11	91.27	30 55	13.73	33	95.18	30 51	6.54*	49	97.97	37 14
15.36	34	84.75	36 03	15.21	53	88.10	33 01	14.29	11	91.29	33 29	15.55	35	95.48	37 48	15.36	52	98.60	31 13
15.55	37	85.23	39 07	15.55	56	88.70	37 57	14.51	16	92.12	39 13	14.25	39	96.20	32 50	14.46	53	98.68	39 08
14.51	39	85.61	32 06	13.82	59	89.10	33 46	14.72	20	92.87	31 53	15.55	39	96.33	36 38	13.22	55	99.08	31 18
14.25	39	85.62	30 19	15.36	35 4	89.96	36 31	11.15	22	93.30	37 28	15.55	43	96.95	33 11	13.82	59	99.83	33 48
15.55	40	85.80	30 33	15.36	4	90.10	34 52	15.09	26	93.91	36 53	15.55	45	97.24	32 11	15.55	36 0	99.97	38 46
14.88	44	86.49	32 33	15.55	6	90.45	32 48	15.55	26	94.01	39 18	13.82	45	97.24	35 00	14.08	2	0.43	32 23
15.55	44	86.52	32 05	13.43	7	90.49	39 31	15.55	28	94.26	37 34	15.36	45	97.30	34 58	14.16	3	0.58	34 41

25 prec. + 109 sec. — 1′ 17″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	*x*	*y*+50′	Int. magn.	α	*x*	*y*+50′	Int. magn.	α	*x*	*y*+50′	Int. magn.	α	*x*	*y*+50′	Int. magn.	α	*x*	*y*+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.55	36 4	0.65	31 03	15.55	38 8	22.76	34 20	15.55	36 22	4.00	46 15	15.55	34 38	85.46	57 34	14.29	36 30	5.34	59 10
15.21	5	0.96	36 41	14.92	34 25	83.15	49 03	14.72	24	4.23	48 15	15.55	40	85.78	52 21	14.88	31	5.46	55 29
14.29	6	1.03	36 50	14.72	28	83.66	40 16	13.18	29	5.19	40 55	14.92	41	86.03	56 57	15.36	33	5.85	58 02
15.55	10	1.82	37 37	15.55	28	83.68	41 45	15.21	31	5.59	40 14	14.25	42	86.23	52 32	13.22	33	5.90	55 35
15.55	12	2.11	38 30	15.55	30	83.97	43 08	13.86	34	6.12	44 38	14.80	43	86.30	59 43	12.88	35	6.16	51 52
15.36	16	2.82	39 12	12.80	31	84.26	45 49	13.18	35	6.14	46 56	14.92	44	86.46	54 58	13.73	36	6.29	56 29
15.21	21	3.78	38 22	15.55	32	84.31	46 06	14.04	36	6.36	42 49	14.80	47	87.14	58 31	14.67	36	6.30	54 49
9.21	21	3.82	31 06	15.36	33	84.61	43 12	12.67	37	6.58	47 51	14.92	47	87.15	53 06	15.55	38	6.65	59 49
14.92	24	4.35	32 12	13.01	35	84.83	43 46	13.01	37	6.61	41 22	10.71	47	87.16	59 07	15.09	39	6.96	56 30
9.78	25	4.42	36 35	14.29	36	85.07	40 44	14.67	40	7.14	44 16	14.80	49	87.42	56 43	13.61	40	7.14	58 53
14.72	25	4.44	33 28	15.55	38	85.37	47 44	12.67	41	7.34	46 20	14.08	55	88.53	54 05	14.51	46	8.08	55 35
14.88	27	4.84	32 23	14.16	40	85.72	40 01	14.72	49	8.74	47 46	14.72	35 0	89.30	57 43	13.43	48	8.43	53 15
15.21	29	5.09	39 17	15.00	41	86.05	47 46	15.21	51	9.13	48 29	15.09	0	89.36	56 28	12.03	54	9.52	57 09
15.21	31	5.56	38 29	15.55	44	86.57	49 44	15.09	53	9.39	42 00	14.72	0	89.47	59 02	15.36	56	9.96	52 36
13.22	31	5.59	38 44	14.72	50	87.55	44 04	15.13	54	9.65	42 09	14.29	1	89.61	58 40	14.88	57	10.02	53 40
15.55	34	5.97	38 01	15.55	54	88.26	43 39	14.80	54	9.68	43 28	15.21	3	89.90	56 24	13.39	58	10.24	55 47
12.88	34	6.00	30 01	14.80	57	88.80	44 38	13.18	59	10.53	49 54	15.55	3	89.96	59 08	13.65	59	10.38	56 55
14.51	35	6.20	30 53	14.67	59	89.25	40 56	13.86	37 3	11.14	49 15	15.55	4	90.16	50 42	15.55	37 2	10.90	53 30
15.55	39	6.96	39 03	14.46	35 1	89.48	41 55	15.00	3	11.16	48 44	10.80	5	90.24	53 31	15.09	4	11.28	53 39
15.09	48	8.48	39 46	11.38	1	89.52	46 58	15.21	13	12.91	48 27	15.55	5	90.34	50 03	15.55	4	11.33	56 03
15.21	52	9.29	34 04	14.25	2	89.69	40 41	15.55	13	12.93	46 46	13.82	7	90.61	50 59	14.46	4	11.34	57 32
14.59	53	9.42	39 13	14.29	2	89.72	45 30	9.83	15	13.29	40 05	14.25	11	91.36	52 47	14.80	7	11.85	52 16
14.88	53	9.47	34 29	15.09	6	90.36	43 47	14.88	16	13.43	46 03	13.95	15	92.02	58 12	15.55	8	12.01	54 16
14.72	54	9.58	35 21	15.21	17	92.37	41 34	14.08	22	14.60	41 18	15.36	20	92.95	59 52	13.95	10	12.34	56 52
13.52	59	10.48	33 43	12.46	18	92.52	41 44	15.55	23	14.73	45 57	14.80	20	92.97	50 54	15.27	11	12.54	50 04
15.55	37 6	11.82	39 39	13.09	20	92.81	46 15	15.09	29	15.79	46 28	14.04	24	93.54	50 58	15.36	13	12.95	50 02
14.04	15	13.26	31 22	12.80	25	93.77	44 22	15.51	29	15.88	43 28	15.00	26	93.89	55 38	15.55	15	13.19	50 58
15.55	20	14.25	37 09	15.21	26	93.94	43 15	14.12	30	15.92	40 22	13.09	26	94.04	57 59	15.55	15	13.28	53 15
14.46	22	14.57	32 05	15.55	29	94.57	41 59	15.55	31	16.09	46 03	13.86	29	94.50	59 13	14.88	20	14.21	52 45
15.55	24	14.97	34 10	14.25	31	94.83	40 41	15.13	31	16.20	49 55	13.39	32	94.99	54 07	11.38	22	14.47	54 25
15.21	26	15.28	37 31	14.72	32	95.06	49 40	13.95	39	17.52	45 37	11.15	33	95.21	57 00	15.21	22	14.49	56 04
13.30	26	15.37	31 19	13.09	37	95.93	47 40	14.88	40	17.84	47 22	14.88	40	96.53	54 32	14.63	27	15.38	50 24
15.21	27	15.43	39 02	13.65	39	96.35	45 43	15.55	42	18.18	44 48	14.67	45	97.29	50 39	15.09	27	15.41	56 26
14.67	27	15.55	37 16	13.30	40	96.41	43 06	15.55	44	18.40	47 59	9.64	49	98.06	56 18	14.25	27	15.48	55 01
7.66*	30	15.99	36 22	10.10	41	96.67	44 34	15.55	44	18.51	44 19	15.55	52	98.66	51 04	13.86	28	15.64	53 35
14.46	37	17.20	32 24	15.09	49	97.97	49 24	13.52	46	18.81	41 25	15.27	57	99.42	50 29	15.21	29	15.68	54 49
14.51	41	18.00	37 11	13.86	49	98.11	41 37	14.25	49	19.36	49 22	15.55	57	99.55	56 59	14.67	30	15.90	53 09
15.13	44	18.44	39 23	12.25	50	98.22	49 31	15.55	52	19.93	45 07	14.04	36 6	0.99	56 32	15.55	30	16.00	55 40
14.72	44	18.47	30 54	11.82	52	98.54	45 47	14.88	58	20.87	45 16	15.13	8	1.46	54 17	14.80	32	16.23	53 37
15.00	48	19.31	32 24	14.46	57	99.53	41 59	14.92	38 5	22.10	42 51	15.55	12	2.16	50 28	12.88	32	16.30	52 21
13.65	52	19.87	39 09	15.55	36 1	0.23	45 47	15.17	6	22.40	49 56	15.55	13	2.30	51 10	12.25	37	17.12	50 00
15.55	56	20.71	32 53	15.55	3	0.52	46 55	14.46	6	22.42	49 17	14.92	13	2.38	55 07	14.16	40	17.76	59 04
11.82	56	20.73	37 03	14.88	5	0.82	47 08	13.18	8	22.76	46 08	13.91	14	2.43	59 58	15.55	45	18.56	54 06
14.72	57	20.85	32 07	15.13	6	1.10	44 38	14.80	34 25	83.11	59 05	15.55	19	3.29	53 45	14.51	46	18.68	53 07
12.03	59	21.24	38 11	15.55	7	1.21	42 03	15.00	26	83.45	54 28	14.67	20	3.61	57 26	12.25	47	18.95	54 20
11.60:	38 1	21.55	33 49	14.51	12	2.17	47 52	15.55	27	83.53	52 41	15.55	24	4.20	52 52	15.55	50	19.49	52 54
14.59	2	21.71	33 30	15.55	14	2.39	41 18	15.21	28	83.69	56 53	15.55	24	4.20	53 34	14.88	52	19.80	54 50
12.67	2	21.79	37 55	13.61	15	2.60	43 34	13.82	31	84.21	54 27	11.15	24	4.30	59 54	12.80	53	20.00	54 53
15.55	4	22.16	30 33	14.59	19	3.38	43 15	15.21	36	85.21	51 13	15.55	28	4.93	54 48	14.80	55	20.37	53 40
13.52	7	22.54	34 09	10.15	19	3.42	49 09	15.55	38	85.40	51 54	15.55	30	5.32	57 11	13.73	38 0	21.32	51 58

25 prec. + 110 sec. — 1′ 19″.

Area 26.

+ 44°, + 45°

301—330				331—360				361—390				391—410			
Int. magn.	α	x	y+50′ / y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.80	38 4	21.92	52 48	12.46	35 17	92.43	9 03	14.80	36 16	2.86	4 12	11.60	37 15	13.23	4 26
15.00	4	22.00	52 09	13.52	19	92.84	8 35	15.36	19	3.33	8 53	14.80	16	13.41	4 14
14.80	4	22.01	51 07	14.72	24	93.56	6 11	15.55	20	3.47	1 53	15.09	18	13.74	6 54
12.88	5	22.14	59 08	15.55	24	93.69	2 42	14.92	21	3.74	2 22	15.00	20	14.04	8 02
15.55	34 29	83.86	2 29	15.21	35	95.59	6 48	14.72	21	3.77	8 00	15.55	21	14.35	3 01
13.61	30	84.20	5 14	14.80	35	95.61	7 59	12.25	27	4.75	1 37	10.93	22	14.43	8 33
14.80	31	84.26	3 31	14.80	37	95.88	2 14	14.46	28	4.86	0 15	15.36	26	15.22	3 21
14.38	32	84.47	3 04	15.55	37	95.99	6 45	15.36	28	4.90	2 26	15.55	27	15.40	8 11
14.80	32	84.52	8 34	12.46	38	96.13	4 59	12.67	29	5.07	3 28	15.36	29	15.73	6 44
14.72	34	84.79	3 52	15.21	40	96.43	1 56	12.67	29	5.17	2 32	14.25	30	15.81	8 26
14.92	37	85.43	1 39	15.55	44	97.12	9 19	14.88	30	5.26	8 33	15.13	32	16.30	9 30
15.13	39	85.64	0 31	10.63	44	97.12	6 54	13.30	33	5.86	5 49	13.39	44	18.36	1 51
15.09	39	85.70	8 53	14.92	46	97.46	8 38	14.88	34	5.92	7 03	15.21	45	18.54	1 43
14.80	41	86.06	4 02	14.38	47	97.75	5 57	15.55	42	7.45	3 07	14.72	47	18.81	9 40
15.55	41	86.08	0 54	15.55	48	97.86	2 45	14.80	44	7.83	3 56	15.13	48	19.10	0 50
15.55	43	86.47	0 29	15.55	48	97.89	7 08	15.55	46	8.03	7 20	15.55	49	19.21	0 38
12.25	44	86.56	6 45	15.55	48	97.96	1 53	14.51	46	8.06	2 27	14.59	51	19.54	1 03
14.80	44	86.62	9 31	12.59	50	98.22	7 53	14.51	48	8.48	4 59	15.13	54	20.13	9 55
12.75	50	87.72	0 30	15.13	53	98.70	7 14	15.00	56	9.90	5 00	15.55	54	20.21	3 32
15.55	52	88.00	6 24	15.13	55	99.03	1 51	14.46	58	10.19	6 20	15.36	38 0	21.26	6 26
15.55	54	88.35	8 23	14.38	55	99.18	0 12	15.36	37 0	10.52	6 10				
14.59	55	88.53	2 09	14.67	56	99.35	9 39	15.36	0	10.61	5 35				
15.21	35 0	89.44	8 58	15.55	36 0	0.04	3 28	14.38	1	10.76	5 05				
14.80	0	89.50	4 21	15.55	1	0.18	1 15	14.92	2	10.89	2 04				
15.09	7	90.57	5 01	14.59	2	0.28	5 05	14.92	3	11.16	4 41				
14.88	7	90.69	7 05	14.46	2	0.30	6 03	11.60	7	11.81	0 14				
11.38	8	90.84	8 08	15.55	4	0.63	3 12	14.08	7	11.83	3 29				
12.80	13	91.63	1 10	15.13	5	0.89	0 14	14.92	7	11.88	2 13				
15.00	13	91.78	2 02	14.38	5	0.89	3 50	13.22	13	12.86	6 22				
12.25	17	92.33	7 44	14.38	6	1.03	2 33	14.67	14	13.02	9 57				

25 prec. + 110 sec. — 1′ 19″.

7^h

Area 27. Centre for 1900: $7^h\ 38^m$ + 44° 50′.

+ 44°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.42	35 29	72.99	27 34	15.11	35 48	76.52	29 27	14.90	36 5	79.54	27 37	14.88	36 43	86.31	24 08	15.11	37 24	93.62	20 41
12.72	30	73.29	23 32	11.08	49	76.54	25 04	12.27	13	80.93	29 15	15.30	51	87.71	22 40	15.30	28	94.37	21 20
14.00	32	73.57	29 31	15.30	50	76.86	21 02	15.30	13	80.93	29 49	14.82	53	87.96	29 15	15.30	29	94.44	23 18
14.11	36	74.20	28 47	14.82	53	77.25	27 51	11.30	14	81.04	24 46	12.72	56	88.56	23 17	14.68	29	94.52	22 46
15.11	38	74.69	29 42	15.30	53	77.26	29 01	11.55	15	81.22	26 04	15.30	57	88.70	25 37	13.60	30	94.55	27 40
15.11	42	75.28	23 38	14.96	53	77.27	20 18	15.11	17	81.54	20 43	14.36	37 0	89.26	27 53	13.30	34	95.43	21 13
11.55	44	75.68	21 06	12.49	55	77.68	29 03	14.68	23	82.62	21 19	14.36	1	89.54	26 57	14.58	41	96.57	25 34
15.30	44	75.78	29 08	15.30	57	77.96	28 07	14.68	37	85.12	21 07	14.62	7	90.49	25 22	14.96	51	98.33	21 50
14.00	46	75.99	23 26	13.80	58	78.12	27 07	15.30	37	85.12	28 21	15.30	16	92.07	23 05	14.36	38 3	0.49	27 17
14.74	46	76.01	27 29	14.76	59	78.40	23 00	13.17	42	86.03	22 25	14.52	23	93.44	26 05	13.88	9	1.53	26 25

25 prec. + 107 sec. — 3′ 25″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.29	38 9	1.66	23 17	15.30	35 24	72.27	31 30	14.18	38 20	3.51	31 11	15.30	35 52	77.29	46 24	14.36	38 39	6.97	45 32
12.85	18	3.18	24 12	15.30	31	73.41	37 04	12.27	22	3.96	36 26	14.82	54	77.71	47 57	11.89	41	7.28	49 52
14.68	24	4.20	23 25	15.11	31	73.52	38 33	14.62	27	4.73	35 47	14.00	58	78.41	45 13	15.30	42	7.49	42 16
9.87	24	4.24	22 14	9.17	32	73.68	35 56	15.30	31	5.51	38 17	14.82	59	78.46	49 19	14.42	51	9.03	46 49
14.62	24	4.37	20 01	15.30	38	74.67	36 05	12.94	37	6.58	33 47	15.30	36 5	79.54	40 28	14.25	58	10.31	45 06
14.96	26	4.68	22 16	14.55	40	75.09	39 49	9.21	41	7.33	31 35	15.30	12	80.89	47 14	15.30	39 4	11.43	49 26
14.29	28	5.09	22 53	13.60	43	75.58	30 13	14.36	42	7.50	34 36	14.42?	15	81.29	49 14	14.52	8	12.10	43 07
14.18	36	6.35	21 15	12.94	46	76.07	39 31	14.11	54	9.63	39 07	13.38	23	82.78	46 50	15.30	13	12.97	48 04
13.72	36	6.37	23 11	14.07	48	76.54	33 44	15.11	57	10.13	33 09	12.63	23	82.86	40 23	14.29	16	13.53	48 39
11.80	37	6.56	27 33	13.68	49	76.62	30 24	14.62	39 2	11.12	36 54	10.31	24	83.01	49 33	15.30	17	13.67	43 33
14.18	42	7.49	23 11	14.46	49	76.69	33 28	14.29	10	12.46	37 22	14.90	24	83.03	41 17	15.30	19	13.98	47 31
14.18	44	7.82	26 30	14.76	54	77.62	32 20	14.07	11	12.61	32 59	9.59	25	83.05	45 14	13.92	20	14.11	44 04
14.82	45	8.12	27 06	14.62	56	77.86	31 18	11.01	12	12.86	38 55	12.27	33	84.49	43 18	14.74	20	14.28	46 31
15.30	46	8.14	29 15	13.08	58	78.22	33 29	14.90	15	13.35	37 50	12.40	33	84.50	43 57	14.74	21	14.35	47 55
13.60	48	8.54	26 35	14.29	36 2	79.04	33 49	15.11	16	13.45	36 16	14.74	41	86.05	44 44	14.76	26	15.24	40 57
15.11	49	8.77	23 09	14.46	3	79.24	35 26	13.26	18	13.84	30 23	14.68	43	86.35	43 59	14.11	26	15.28	42 46
14.96	52	9.31	24 18	11.80	4	79.26	32 14	15.30	20	14.27	38 24	15.30	50	87.58	42 08	15.30	32	16.39	43 37
13.92	54	9.67	27 57	12.27	9	80.29	38 51	15.11	27	15.50	30 29	14.88	53	88.03	49 12	14.90	51	19.75	49 01
15.30	56	10.00	27 27	12.49	10	80.36	34 14	12.94	29	15.82	30 57	15.30	58	89.02	49 19	15.30	52	19.92	49 18
12.94	39 0	10.75	20 12	14.11	10	80.37	37 34	15.30	42	18.11	33 22	12.63	37 1	89.51	49 36	14.68	53	20.08	45 22
14.36	7	12.03	24 56	13.03	23	82.78	39 33	14.90	43	18.32	36 08	14.96	3	89.89	43 53	15.30	40 0	21.38	42 15
13.72	10	12.47	26 16	14.96	26	83.18	35 41	15.30	44	18.43	31 24	14.90	4	90.07	45 43	14.29	9	22.93	40 27
13.30	13	13.04	23 42	14.74	31	84.10	36 32	15.30	44	18.45	31 32	14.96	4	90.09	44 51	15.11	14	23.72	46 08
13.60	15	13.35	29 19	14.68	32	84.35	33 18	14.74	49	19.36	31 47	13.72	5	90.15	43 21	14.46	14	23.82	42 26
14.36	26	15.31	27 58	15.30	39	85.51	31 49	14.88	49	19.42	34 26	14.74	5	90.28	40 23	14.82	16	24.21	41 55
14.90	33	16.66	20 38	14.46	41	85.92	38 34	11.80	51	19.81	32 23	14.58	9	90.95	48 38	15.30	30	26.60	44 07
14.36	35	16.92	25 40	14.74	44	86.55	34 18	13.88	51	19.82	31 39	12.49	15	91.97	43 02	14.18	36	27.70	47 54
14.79	37	17.28	29 58	15.30	47	87.05	33 45	12.94	54	20.36	36 51	10.81	15	92.05	49 46	14.88	37	27.83	46 27
14.76	38	17.41	27 07	14.68	48	87.13	38 07	15.30	56	20.70	36 33	14.62	22	93.16	47 07	14.07	37	27.90	40 35
14.62	42	18.13	22 47	15.30	50	87.50	35 08	14.96	57	20.91	30 59	14.76	23	93.36	41 14	15.11	40	28.46	45 33
14.68	42	18.17	21 15	14.76	51	87.64	34 55	13.72	40 9	23.03	36 07	14.79	23	93.46	49 57	14.11	42	28.69	43 31
14.18	48	19.37	22 39	13.03	53	88.12	36 08	15.30	14	23.79	35 26	12.27	25	93.83	46 21	14.76	45	29.22	47 53
15.30	50	19.56	28 12	15.30	56	88.56	35 26	13.88	19	24.73	35 39	14.18	34	95.30	43 06	15.30	47	29.67	45 33
14.88	50	19.64	21 55	15.30	58	88.96	35 49	14.82	24	25.73	35 50	14.22	34	95.44	40 29	14.58	41 0	31.91	46 22
15.30	51	19.76	21 35	15.11	58	88.96	34 55	12.94	25	25.86	31 35	14.76	36	95.70	42 17	14.39	35 22	72.11	50 19
13.60	55	20.60	23 40	15.30	59	89.08	31 09	14.11	28	26.40	31 42	14.68	38	96.03	44 14	15.30	29	73.28	56 23
13.03	58	21.15	23 13	13.30	37 12	91.53	35 11	15.30	38	28.20	35 45	11.34	41	96.62	43 24	15.30	30	73.53	56 33
14.90	40 5	22.27	24 43	14.46	18	92.46	38 49	14.58	40	28.44	35 48	11.30	43	97.07	49 44	15.30	30	73.53	56 56
14.29	18	24.55	23 11	15.30	23	93.34	36 33	14.68	44	29.22	30 40	15.30	50	98.30	45 51	14.00	31	73.67	58 19
14.18	18	24.61	23 31	14.11	24	93.61	36 56	8.9 :	45	29.32	31 07	13.51	51	98.44	49 58	14.90	33	73.95	51 21
14.52	22	25.42	23 48	15.30	26	93.93	32 19	15.30	35 26	72.59	43 50	14.52	38 12	2.04	40 15	14.07	34	74.12	52 54
15.30	31	27.02	25 58	13.72	26	93.97	31 29	14.96	29	73.15	48 24	9.82	12	2.21	48 55	11.01	38	74.80	53 49
15.30	38	28.13	25 01	15.11	27	94.17	38 29	15.30	30	73.31	42 33	14.62	14	2.47	47 01	14.00	39	75.10	54 58
14.52	42	28.84	23 43	14.18	28	94.29	31 26	14.42	34	74.11	45 03	11.09	28	4.90	46 57	15.11	42	75.53	51 02
9.85	42	28.97	21 10	14.74	31	94.88	39 22	14.68	36	74.50	47 14	13.88	29	5.15	44 05	13.68	43	75.76	57 25
14.25	42	28.98	25 31	14.88	34	95.41	30 49	15.30	39	74.90	41 54	14.07	31	5.51	40 52	15.30	43	75.83	54 55
15.30	51	30.59	21 51	12.72	44	97.23	34 15	14.96	40	75.19	43 25	14.74	32	5.71	41 56	12.03	48	76.55	53 17
12.72	56	31.36	25 57	14.58	38 7	1.32	33 25	14.18	41	75.34	44 21	12.49	32	5.75	42 54	12.03	36 4	79.40	51 55
13.51	56	31.46	25 01	14.88	8	1.36	30 25	14.29	44	75.77	45 42	14.36	35	6.23	43 57	14.74	10	80.60	53 42
11.05	35 24	72.19	36 27	14.36	11	2.02	30 19	15.30	48	76.57	40 12	14.90	39	6.93	44 05	14.46	14	81.15	50 59

25 prec. + 107 sec. — 3′ 28″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$ / $y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.72	36 17	81.72	57 56	14.07	39 44	18.50	58 12	11.20	36 7	79.97	0 10	14.11	39 26	15.12	8 51	14.88	37 4	90.12	18 26
15.11	22	82.63	50 21	11.30	53	20.06	54 05	13.08	9	80.32	1 59	13.47	27	15.43	8 44	15.30	5	90.24	14 38
14.07	38	85.46	59 29	14.76	54	20.23	56 37	15.30	11	80.74	4 09	14.82	28	15.49	5 23	13.17	6	90.46	13 56
14.68	41	85.94	50 35	14.18	55	20.41	56 32	14.90	24	82.98	7 39	15.30	31	16.00	2 00	13.60	14	91.90	19 56
14.11	41	85.94	52 12	12.03	56	20.48	55 40	14.90	36	85.23	0 40	14.25	45	18.60	0 57	15.11	20	92.87	13 08
14.82	47	87.14	58 57	14.74	59	21.04	50 25	15.30	40	85.87	6 18	9.24	48	19.07	3 03	14.18	23	93.52	14 39
14.42	52	88.00	52 21	14.62	40 0	21.16	52 18	14.18	41	86.04	3 33	15.30	56	20.40	5 44	15.30	24	93.57	14 20
12.94	55	88.51	53 20	13.17	1	21.38	52 40	15.30	44	86.65	2 56	12.85	57	20.65	5 29	13.30	27	94.12	17 10
15.11	57	88.84	57 11	12.72	6	22.38	56 06	14.29	48	87.24	1 31	12.72	58	20.80	4 23	15.30	28	94.43	14 55
14.18	37 0	89.30	54 10	15.30	7	22.47	51 38	14.68	50	87.63	3 08	15.30	40 0	21.19	7 31	13.80	51	98.38	19 27
14.74	17	92.47	59 15	14.29	8	22.60	50 12	14.82	50	87.73	7 02	15.30	1	21.34	9 55	10.83	52	98.51	13 21
14.58	18	92.59	56 16	15.30	10	23.04	53 08	14.58	54	88.27	7 02	14.76	2	21.52	7 19	14.29	38 3	0.47	14 57
14.68	23	93.47	51 23	13.51	11	23.14	56 17	15.30	54	88.42	3 55	14.46	2	21.52	5 33	9.71	4	0.79	18 48
14.85	24	93.61	50 24	15.30	11	23.26	56 45	12.27	55	88.57	8 48	12.27	2	21.54	3 20	14.88	7	1.16	17 35
15.30	26	93.96	54 41	9.34	14	23.73	54 24	13.92	58	89.12	1 32	15.30	6	22.18	1 57	14.18	10	1.67	16 40
13.88	26	94.04	56 50	14.88	16	24.12	56 55	12.85	37 0	89.37	7 19	13.51	13	23.47	8 32	14.76	12	2.03	15 59
14.96	31	94.80	51 47	14.52	17	24.18	57 26	13.17	7	90.68	8 14	13.84	19	24.57	0 00	13.80	13	2.21	12 40
14.82	33	95.29	55 11	15.30	24	25.40	58 05	14.42	7	90.70	9 51	9.5 :	20	24.76	1 37	15.30	25	4.34	10 15
15.30	42	96.79	56 24	13.80	25	25.67	59 04	13.21	8	90.77	9 41	14.36	27	25.94	2 58	14.96	28	4.89	11 43
13.08	44	97.15	59 15	15.30	38	27.91	58 45	14.58	8	90.86	8 42	14.42	28	26.20	6 09	14.42	32	5.56	15 40
14.18	46	97.43	55 50	15.30	44	28.97	55 07	15.30	12	91.55	5 52	13.17	35	27.33	7 44	14.46	35	6.16	19 09
14.52	47	97.71	56 56	14.74	47	29.63	56 58	12.72	12	91.62	5 25	11.80	40	28.20	4 11	14.52	40	7.12	10 35
14.46	51	98.47	55 39	13.88	49	29.85	51 43	15.30	20	93.00	2 14	15.30	42	28.51	1 24	14.74	42	7.33	17 37
14.25	52	98.56	59 39	14.74	52	30.53	56 41	14.58	28	94.39	1 29	14.74	46	29.28	5 12	14.18	42	7.42	14 49
14.46	58	99.59	54 53	14.36	54	30.71	57 36	15.30	30	94.70	5 20	13.17	59	31.63	4 34	14.36	44	7.79	12 54
14.25	38 18	3.16	54 55	11.30	55	30.94	50 06	14.82	35	95.58	2 17	14.76	41 1	31.91	3 22	14.96	52	9.22	10 59
12.49	20	3.46	57 18	15.30	41 0	31.81	51 58	12.27	37	95.89	3 01	14.36	1	31.95	6 27	15.30	58	10.19	17 29
11.01	26	4.66	52 04	14.36	35 22	72.05	3 37	15.02	39	96.25	9 52	9.64	35 25	72.76	11 27	14.58	39 2	10.93	14 58
15.30	30	5.31	51 45	11.30	27	72.99	1 16	13.92	41	96.70	3 46	14.62	27	73.14	15 24	14.96	6	11.54	12 42
14.96	34	6.05	54 26	14.25	28	73.13	7 14	15.30	45	97.35	5 21	15.30	33	74.17	16 02	13.38	10	12.38	16 20
14.85	45	8.03	50 16	12.49	28	73.17	0 36	14.96	47	97.71	9 38	15.11	33	74.17	11 43	14.18	14	12.94	13 00
15.11	49	8.75	58 54	14.52	30	73.49	2 44	12.27	50	98.31	8 23	14.46	37	74.81	13 15	14.58	15	13.25	14 24
15.30	59	10.50	58 15	14.18	32	73.87	6 59	14.36	54	98.86	4 06	15.30?	43	75.82	18 49	14.90	15	13.28	13 26
14.46	59	10.52	59 13	13.80	32	73.90	4 45	12.94	54	98.95	5 53	10.84	44	76.00	13 22	12.27	21	14.32	18 11
14.96	39 2	11.06	55 00	15.30	33	74.00	6 02	15.11	54	98.96	2 22	14.76	51	77.29	19 57	14.96	25	14.98	11 33
11.05	4	11.38	56 04	12.03	37	74.76	9 38	13.47	54	98.97	3 55	13.08	53	77.64	11 26	15.11	26	15.10	14 39
15.30	8	12.01	56 23	15.30	38	74.93	6 15	9.82	56	99.32	2 03	15.11	36 3	79.34	19 35	14.76	29	15.74	13 11
15.11	8	12.04	57 29	13.03	40	75.31	2 30	14.36	56	99.32	7 49	10.95	9	80.51	14 44	13.51	34	16.57	13 20
14.49	8	12.11	50 24	14.52	44	75.90	1 59	13.88	59	99.84	1 11	14.46	14	81.23	12 18	14.76	35	16.72	14 51
15.30	18	13.82	56 34	14.29	45	76.10	5 55	14.88	38 8	1.43	1 35	12.49	16	81.76	11 57	15.30	36	16.90	13 33
14.29	23	14.67	58 05	11.01	45	76.23	9 53	13.68	11	1.90	1 39	14.46	20	82.49	14 22	14.88	39	17.38	15 30
15.30?	26	15.18	54 31	15.30	47	76.45	0 13	12.72	14	2.49	9 19	15.30	21	82.54	16 55	15.30	40	17.57	16 38
12.49	26	15.22	58 20	15.30	47	76.52	0 03	13.88	25	4.44	4 15	15.11	25	83.33	16 55	13.51	44	18.32	10 13
13.30	26	15.25	53 51	14.79	49	76.94	9 33	11.30	31	5.47	0 33	15.30	28	83.80	10 37	14.96	53	19.81	15 30
14.79	28	15.64	59 39	10.91	50	77.06	4 20	14.55	35	6.22	9 41	14.46	31	84.35	13 59	10.85	54	20.01	11 30
13.68	34	16.58	51 25	13.60	51	77.24	7 18	14.36	37	6.46	0 00	14.68	31	84.39	13 29	8.5 :	40 11	23.11	18 24
14.74	34	16.60	54 20	12.49	56	78.02	2 06	11.30	47	8.36	0 34	14.68	35	85.05	14 49	12.72	12	23.31	12 09
15.11	37	17.15	51 02	13.47	56	78.11	7 38	12.72	49	8.65	0 31	15.30	46	87.04	14 35	14.88	15	23.71	15 27
14.90	42	18.09	59 05	14.52?	57	78.34	0 59	12.49	59	10.44	3 10	14.88	49	87.45	10 39	14.52	17	24.19	19 18
13.72	43	18.25	53 21	11.55	36 4	79.58	4 45	10.71	39 5	13.16	0 20	14.52	55	88.58	13 32	10.85	19	24.44	17 22

25 prec. + 107 sec. — 3′ 28″.

7^h

Area 27.

$+45^\circ$

551—554			
Int. magn.	α	x	$y-10'$
	m s	′	′ ″
14.74	40 28	26.13	10 55
14.88	52	30.19	15 40
14.36	57	31.23	16 30
15.30	59	31.57	12 57

25 prec. + 107 sec. — 3′ 33″.

8^h

Area 28. Centre for 1900: $8^h\ 40^m + 45^\circ\ 0'$.

$+44^\circ$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.54	37 9	69.61	37 50	12.97	40 1	0.22	33 13	15.09	37 28	73.00	47 25	15.44	41 9	12.25	49 00	15.63	37 39	75.06	55 55
13.59	15	70.54	32 02	15.44	7	1.29	35 58	13.11	30	73.32	40 18	15.16	10	12.41	44 30	14.34	38 4	79.51	50 10
15.16	26	72.60	33 48	15.63	23	4.13	33 42	13.78	34	74.14	47 17	14.68	12	12.81	45 47	12.01	16	81.62	50 16
15.63	28	72.99	33 49	11.62	47	8.45	36 35	10.66	36	74.35	43 50	15.09	14	13.20	43 23	15.63	23	82.90	54 14
14.85	33	73.79	33 34	13.48	53	9.42	38 22	11.37	38 1	78.90	42 27	14.68	18	13.89	40 14	15.44	24	82.93	50 48
14.34	34	74.04	33 22	15.63	54	9.61	34 59	15.63	17	81.77	45 38	11.19	20	14.12	46 14	15.09	29	83.93	55 32
14.96	35	74.25	30 53	13.99	41 0	10.76	32 43	15.63	18	81.90	44 59	12.70	20	14.19	48 35	13.51	32	84.43	55 16
14.68	39	74.95	35 35	13.15	12	12.85	35 25	15.63	29	83.89	48 56	15.63	21	14.35	42 20	15.63	33	84.57	52 15
13.70	40	75.09	39 06	13.91	14	13.19	35 48	14.68	30	83.95	43 17	14.12	21	14.38	40 42	10.51	54	88.38	56 13
14.20	43	75.57	31 46	10.78	16	13.56	37 47	15.63	34	84.69	48 11	13.11	36	17.09	46 16	14.34	39 16	92.17	51 09
13.51	45	75.94	33 12	13.99	16	13.59	35 07	11.62	34	84.78	46 26	13.99	43	18.35	45 58	13.59	17	92.47	51 36
14.34	46	76.11	36 32	14.68	22	14.63	33 56	13.51	42	86.17	41 44	15.16	45	18.65	49 16	12.22	27	94.21	58 57
15.63	58	78.29	31 30	11.26	25	15.06	38 25	13.86	46	86.80	47 50	15.22	47	18.92	40 16	10.62	34	95.48	51 06
15.63	59	78.46	34 56	13.15	27	15.57	30 17	12.38	46	86.84	48 34	14.30	50	19.49	42 24	14.58	45	97.29	56 24
15.63	38 1	78.89	32 53	15.63	41	18.04	38 45	15.44	56	88.62	41 04	15.63	58	20.99	40 16	13.15	48	97.91	54 54
15.44	12	80.76	32 27	14.85	45	18.64	36 04	15.44	59	89.16	46 31	12.54	42 3	21.78	46 06	9.93	51	98.34	56 36
8.90*	16	81.50	32 51	14.20	46	18.86	34 26	13.91	39 15	92.08	45 21	13.91	4	22.04	46 29	13.22	51	98.38	51 31
15.63	25	83.11	32 14	14.85	55	20.44	37 59	14.85	19	92.77	41 22	14.90	10	23.16	40 27	13.91	40 7	1.20	57 32
10.44	40	85.75	33 38	15.44	58	20.93	36 58	14.58	21	93.02	43 00	14.34	19	24.62	42 15	15.63	10	1.77	50 00
15.09	42	86.10	35 42	15.63	42 2	21.75	32 53	15.63	25	93.77	46 38	13.99	21	25.11	47 31	14.96	14	2.45	56 54
15.44	46	86.75	32 15	10.82	3	21.96	32 06	13.22	44	97.16	49 16	15.63	27	26.05	49 16	12.22	17	3.09	54 55
14.54	59	89.16	32 31	15.63	12	23.58	36 11	15.44	47	97.65	46 31	12.87	29	26.50	42 39	10.93	26	4.53	56 37
11.00	39 5	90.17	34 37	13.91	32	27.13	36 42	12.70	49	98.01	43 37	13.63	33	27.18	40 08	14.20	26	4.60	50 29
15.63	16	92.10	34 07	13.04	37 2	68.34	40 22	15.63	56	99.22	46 19	14.34	34	27.36	47 10	14.68	27	4.85	52 27
14.79	22	93.15	35 20	15.09	11	70.03	49 52	15.44	40 3	0.56	45 05	12.70	36	27.73	45 40	15.16?	30	5.35	57 32
14.07	23	93.39	33 12	15.63	13	70.38	44 32	12.54	7	1.23	41 19	15.44	37 18	71.36	56 43	12.54	35	6.21	57 49
14.96	33	95.15	36 38	15.09	16	70.85	47 36	14.12	30	5.31	44 46	15.63	27	72.97	57 08	15.63	37	6.52	51 38
12.87	46	97.47	31 08	11.25	17	71.05	43 09	14.44	30	5.39	44 28	14.12	33	74.04	52 44	10.49	38	6.64	52 13
14.85	40 0	99.92	37 40	12.80	20	71.59	45 04	14.12	46	8.18	45 11	12.22	35	74.26	59 17	13.86	40	7.08	55 29
15.09	0	99.94	32 50	13.99	21	71.74	49 35	14.96	58	10.27	41 22	10.62	35	74.41	56 15	13.99	41	7.33	53 18

25 prec. + 102 sec. — 5′ 22″.

151—190				191—230				231—270				271—310				311—341			
Int. magn.	α	x	y+60′ / y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.09	40 50	8.83	59 04	13.29	39 1	89.51	8 35	13.11	18	71.57	18 41	14.30	42 15	23.73	14 28	15.09	39 39	96.39	27 04
15.63	58	10.26	53 30	14.20	7	90.67	7 41	11.13	20	71.88	19 01	15.63	15	23.78	16 59	14.79	51	98.42	26 13
15.63	59	10.43	53 19	14.34	7	90.72	3 45	11.12	22	72.24	15 43	15.44	19	24.50	42 00	14.34	57	99.54	28 38
13.40	41 2	10.98	50 12	12.54	11	91.28	1 24	13.22	22	72.24	17 54	14.96	20	24.64	11 11	15.63	40 7	1.26	21 54
15.63	5	11.58	50 08	14.20	27	94.20	4 05	13.15	24	72.53	17 08	14.85	27	25.80	10 10	13.48	10	1.68	22 38
15.16	8	12.04	59 38	11.77	32	95.13	6 48	15.63	33	74.14	19 06	15.63	29	26.20	13 47	15.63	15	2.62	20 55
13.04	12	12.66	54 17	14.68	36	95.77	6 07	13.86	45	76.23	10 43	13.22	32	26.77	19 08	14.34	16	2.84	21 18
14.58	23	14.71	50 58	14.34	38	96.20	2 56	15.09	38 0	78.89	14 37	14.54	36 59	68.18	23 30	15.63	18	3.13	26 09
13.29	24	14.80	58 52	15.16	53	98.76	5 54	15.63	9	80.51	11 00	15.63	59	68.20	26 47	15.63	20	3.45	29 03
13.40	50	19.49	58 05	15.63	55	99.17	4 35	14.68	11	80.75	10 34	15.63	37 0	68.40	27 21	14.54	23	3.97	26 41
13.67	51	19.59	57 04	13.86	58	99.65	5 20	12.80	11	80.75	13 26	15.29	4	69.12	28 10	13.78	24	4.22	25 44
15.44	57	20.69	53 51	10.79	40 10	1.83	3 41	13.59	13	81.14	12 19	12.70	27	73.21	21 41	13.70	25	4.42	20 45
15.63	42 2	21.56	51 43	10.23	28	4.97	5 57	12.54	37	85.34	17 53	13.29	32	74.10	26 04	15.44	25	4.43	22 46
15.63	8	22.63	54 08	15.63	35	6.24	5 28	15.63	41	86.12	13 48	15.63	45	76.27	20 28	15.63	27	4.66	23 03
15.16	13	23.56	54 53	14.68	38	6.72	2 35	14.68	51	87.82	17 50	15.63	56	78.32	25 31	13.86	28	4.86	29 18
14.85	16	24.10	55 27	15.63	41	7.28	2 46	10.52	39 8	90.91	15 44	14.85	38 0	79.03	22 27	9.85	32	5.58	25 32
11.54	37 2	68.51	0 25	12.70	46	8.16	9 13	12.70	35	95.65	14 33	13.51	1	79.10	26 37	14.20	51	8.94	29 03
15.44	4	68.99	9 41	15.63?	41 6	11.57	2 35	11.15	38	96.04	18 12	12.80	9	80.44	29 02	15.63	54	9.53	29 12
15.63	13	70.54	1 59	15.29	12	12.67	4 29	14.20	54	98.86	11 09	13.59	10	80.66	25 05	13.63	41 4	11.26	20 12
15.09	16	71.12	6 11	15.63	18	13.82	3 42	13.67	40 0	0.09	15 26	14.54	10	80.75	24 01	15.44	5	11.49	25 13
12.70	17	71.31	8 36	14.07	20	14.20	5 25	12.87	3	0.61	18 17	15.09	12	81.01	23 44	13.59	18	13.61	25 23
15.63	19	71.60	9 28	14.30	22	14.47	1 55	15.63	10	1.71	13 08	14.54	14	81.35	26 12	13.91	36	16.94	20 43
12.70	20	71.77	6 48	15.22	27	15.40	0 04	14.79	10	1.80	11 42	15.63	15	81.55	25 44	13.70	46	18.63	26 22
15.63	24	72.45	1 53	14.30	27	15.43	2 57	14.44	12	2.07	11 50	13.78	16	81.77	29 31	15.29	49	19.14	27 39
14.54	32	73.92	1 26	15.22	29	15.74	4 48	12.07	24	4.24	10 14	14.07	21	82.59	21 25	11.17	49	19.21	21 03
14.20	39	75.03	4 51	14.68	34	16.50	6 50	13.22	26	4.50	15 39	12.70	26	83.59	23 37	15.63	51	19.42	24 14
15.63	40	75.37	0 45	13.48	34	16.63	4 31	14.20	31	5.53	16 47	13.78	27	83.64	24 11	14.30	59	20.94	24 15
15.44	42	75.62	8 20	14.12	54	20.20	8 30	14.54	32	5.67	12 40	15.63	34	84.96	29 50	12.38	42 0	21.01	27 08
13.78	45	76.23	6 48	13.91	42 8	22.57	9 28	12.94	39	6.82	19 08	15.63	38	85.57	23 46	15.29	6	22.08	24 40
15.16	59	78.64	5 08	15.63	18	24.35	1 57	13.78	59	10.46	18 17	12.54	41	86.12	25 50	14.79	12	23.21	29 40
15.63	38 2	79.13	6 25	13.78	22	25.12	7 11	15.16	41 8	12.01	12 20	14.79	42	86.23	20 57	15.63	20	24.48	22 33
14.30	5	79.68	1 04	15.63	23	25.25	2 00	12.07	13	12.92	19 34	15.63	44	86.62	24 33				
15.63	8	80.19	7 29	13.22	28	26.11	2 53	15.63	14	13.05	10 44	15.16	49	87.61	20 39				
14.54	11	80.71	3 47	13.91	34	27.18	9 00	15.29	22	14.50	14 12	10.77	56	88.79	26 39				
15.63	12	80.96	2 29	15.09	35	27.32	0 37	14.58	31	16.10	18 14	10.41	58	89.20	22 26				
15.63	14	81.23	8 47	13.11	36	27.53	8 27	14.34	38	17.30	13 08	15.63	39 6	90.56	25 53				
15.63	35	85.02	9 51	15.63	38	27.90	4 11	15.63	42 7	22.30	12 50	15.16	9	90.98	28 05				
15.09	38	85.52	8 29	11.92	38	27.95	6 28	13.11	8	22.46	18 23	15.63	19	92.74	23 24				
14.68	43	86.43	9 06	15.63	37 1	68.52	16 03	15.44	9	22.66	15 38	15.63	30	94.74	27 51				
15.63	44	86.53	8 53	14.85	14	70.86	16 50	14.30	11	23.06	18 01	15.63	37	96.01	29 20				

25 prec. + 103 sec. — 5′ 22″

Area 29. Centre for 1900: $9^h\ 39^m + 44^\circ\ 50'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.68	34 51	55.45	14 55	13.91	39 39	6.97	11 29	15.01	37 43	86.28	27 36	14.13	35 3	57.76	35 17	15.74	41 27	26.09	37 56
15.25	35 8	58.48	12 00	14.45	39	6.99	13 13	15.74	49	87.37	29 54	14.86	6	58.30	39 41	14.45	29	26.58	34 16
15.74	9	58.66	17 44	13.87	39	7.04	13 45	14.09	54	88.20	21 05	9.62	11	59.32	39 56	13.87	31	26.91	30 30
14.77	16	59.82	11 48	14.31	50	8.92	16 16	14.22	38 15	91.92	24 53	14.18	24	61.54	30 16	15.74	37	27.95	38 35
15.74	17	60.13	19 37	15.06	52	9.36	16 40	13.44	15	92.01	25 22	15.74	33	63.13	33 22	14.82	42 0	32.03	35 38
14.36	17	60.14	10 23	15.55	40 3	11.30	15 00	14.77	16	92.12	28 51	15.74	38	63.97	32 32	15.20	10	33.91	39 52
15.74	25	61.54	13 17	14.13	13	12.99	14 40	14.22	18	92.47	20 40	11.31	39	64.12	39 15	15.01	16	34.96	39 51
14.82	30	62.37	14 27	13.70	18	14.00	16 53	13.78	25	93.69	23 13	15.06	36 9	69.61	34 24	14.18	34 48	55.20	49 32
15.40	30	62.44	10 55	14.22	20	14.33	13 47	14.31	25	93.72	27 33	15.30?	12	70.14	30 44	15.01	35 39	64.30	45 35
14.77	31	62.60	17 57	15.74	28	15.74	14 41	15.06	28	94.30	28 10	14.91	14	70.45	34 13	14.82	39	64.31	43 35
15.06	33	62.93	13 35	15.74	29	16.00	13 45	15.74	43	96.92	22 02	11.31	29	73.08	34 51	12.52	44	65.28	46 48
15.74	33	62.98	13 17	15.06	32	16.41	12 47	14.54	47	97.65	21 42	15.74	40	75.02	36 32	12.94	58	67.65	43 10
14.77	34	63.09	16 37	14.13	43	18.53	10 19	12.73	52	98.51	21 12	15.06	46	76.22	30 08	14.59	59	67.85	45 02
11.51	39	64.08	11 53	14.82	46	18.96	16 03	15.74	39 3	0.53	26 57	14.82	59	78.46	35 06	14.82	36 5	68.99	45 51
15.74	41	64.32	14 38	14.82	46	19.03	15 21	14.68	13	2.38	29 19	15.74	37 1	78.73	36 24	12.86	9	69.63	42 17
12.73	42	64.47	10 16	14.59	48	19.43	10 23	14.09	17	3.03	24 21	15.40	15	81.29	39 20	13.83	12	70.13	40 24
15.55	42	64.61	16 43	14.77	51	19.88	17 26	13.87	20	3.63	21 18	14.36	23	82.74	34 07	14.68	33	73.90	42 22
15.15	42	64.64	13 05	14.59	52	20.00	16 27	15.74	30	5.37	29 23	15.74	29	83.73	31 53	14.22	39	74.91	45 22
13.15	36 3	68.28	17 50	14.77	54	20.40	18 13	13.66	39	6.90	22 40	15.74	32	84.35	31 24	14.31	44	75.91	44 53
15.55	12	70.01	18 30	14.59	55	20.57	14 12	14.36	47	8.42	26 59	15.01	38 0	89.29	37 49	15.25	54	77.60	46 21
15.55	18	70.97	18 10	11.07	41 26	26.19	18 27	12.32	48	8.48	20 08	15.30	0	89.30	37 13	14.77	54	77.64	42 26
10.63	28	72.77	17 05	14.22	32	27.16	18 25	11.31	52	9.31	24 04	10.76	2	89.69	30 30	15.74	37 10	80.43	46 29
14.54	37	74.35	19 40	15.74	35	27.80	12 17	15.74	40 1	10.89	22 21	14.00	26	93.87	39 14	12.73	25	83.08	45 58
9.97	37	74.41	17 35	13.07	39	28.55	19 18	15.55	1	10.97	29 54	15.06	26	93.90	31 21	15.74	39	85.59	49 32
15.74	43	75.43	17 31	11.71	42	29.01	11 32	14.22	3	11.19	27 43	15.74	38	96.03	37 26	15.25	48	87.24	45 40
14.68	59	78.31	11 06	15.74	42 4	32.86	19 43	14.09	11	12.70	29 09	15.55	45	97.37	32 25	15.74	50	87.55	40 35
14.13	37 2	78.80	15 07	10.45	13	34.52	11 55	14.91	12	12.88	21 27	13.91	48	97.81	39 56	14.82	50	87.59	48 47
15.40?	9	80.08	15 32	15.74	34 59	57.01	25 13	14.30:	14	13.30	29 52	12.73	57	99.43	38 30	14.68	38 6	90.37	44 22
15.74	20	82.00	12 42	14.45	35 1	57.27	25 54	14.86	16	13.56	29 58	14.77	59	99.79	37 34	13.78	13	91.59	40 41
14.77	25	83.02	14 46	15.30	4	57.85	28 32	13.15	19	14.16	22 09	15.74	39 4	0.61	37 32	14.91	18	92.47	42 59
11.91	33	84.44	11 54	15.74	20	60.70	22 32	15.74	24	15.05	28 39	15.55	7	1.16	32 15	14.82	20	92.90	47 03
14.82	43	86.19	19 08	15.06	30	62.47	26 55	15.30	31	16.23	23 54	15.01	7	1.31	36 06	15.15	45	97.27	46 21
12.86	54	88.16	12 59	15.06	39	64.14	23 05	15.74	33	16.54	22 14	11.31	10	1.79	33 12	15.01	54	98.89	42 08
15.74	38 2	89.54	10 35	14.91	41	64.46	21 53	15.74	38	17.42	27 44	15.06	10	1.79	34 34	14.59	39 2	0.36	49 17
15.74	4	89.92	12 50	14.00	44	65.03	23 09	15.15	41	17.98	28 46	13.91	14	2.50	34 49	12.32	9	1.52	46 05
15.74	4	89.94	16 11	15.40	47	65.57	29 49	15.74	50	19.64	26 28	12.32	16	2.92	39 30	13.78	12	2.22	44 43
11.91	8	90.63	16 12	15.55	53	66.68	26 00	15.55	41 17	24.40	20 26	14.82	30	5.26	36 00	11.12	16	2.79	44 00
15.74	13	91.60	11 03	11.91	57	67.29	25 17	15.25	27	26.20	28 59	15.74	41	7.27	37 14	14.59	24	4.18	43 56
13.78	19	92.60	19 10	15.74	59	67.61	29 52	14.45	33	27.40	21 53	14.00	40 20	14.18	33 15	11.31	42	7.45	46 28
15.01	34	95.37	14 54	11.51	36 1	68.01	22 23	13.91	41	28.82	20 30	15.06	23	14.74	37 12	15.74	42	7.46	49 54
15.55	34	95.40	13 27	14.09	3	68.34	23 29	13.36	42	28.95	28 35	10.85	26	15.27	32 12	11.31	52	9.17	44 00
12.52	40	96.33	18 30	15.74	11	69.77	22 00	15.74	48	29.94	28 47	15.74	26	15.37	37 48	15.74	54	9.62	43 09
13.61	48	97.86	19 54	12.52	18	71.07	25 41	14.96	53	30.84	29 54	14.82	43	18.28	38 57	14.36	40 2	11.06	44 22
13.36	52	98.60	11 58	14.77	51	76.96	23 03	12.73	57	31.52	25 13	15.74	45	18.78	34 29	15.01	20	14.15	45 21
15.74	39 9	1.61	13 47	15.74	59	78.46	20 07	13.15	42 8	33.60	27 35	14.54	48	19.28	36 33	14.82	30	15.98	47 34
13.15	13	2.34	12 21	15.74	37 5	79.43	20 08	14.00	11	34.12	28 28	13.78	58	21.03	35 04	14.68	40	17.71	46 01
15.74	18	3.13	11 32	13.44	30	83.91	29 29	15.55	15	34.90	26 57	15.30	58	21.08	39 39	15.06	51	19.68	46 20
15.74	20	3.55	13 25	12.86	36	84.91	27 45	15.55	34 48	55.05	39 23	15.30	59	21.20	37 19	15.30	51	19.74	41 38
14.77	26	4.72	16 34	15.15	36	84.98	25 21	15.06	54	56.13	32 40	14.77	41 5	22.32	36 06	14.45	54	20.33	46 59
15.55	35	6.23	17 35	14.77	41	85.93	26 57	15.40	57	56.75	32 34	15.74	8	22.81	32 43	14.54	55	20.43	42 25

25 prec. + 96 sec. — 6′ 49″.

Area 29.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$ / $y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
9.36	41 2	21.63	42 04	11.31	38 13	91.67	50 45	13.83	35 52	66.75	9 25	13.44	40 54	20.07	3 15	14.54	39 37	6.51	11 34
14.68	3	21.91	47 26	10.50	17	92.33	53 05	12.11	36 3	68.75	8 27	14.00	55	20.36	6 07	13.66	41	7.21	19 13
13.91	12	23.43	46 30	8.60*	31	94.84	52 40	15.30	7	69.43	4 10	15.55	58	20.87	0 45	15.74	47	8.20	18 08
14.91	28	26.24	45 09	14.82	50	98.18	58 07	15.06	12	70.30	7 19	13.36	58	20.87	8 16	14.13	53	9.30	18 20
13.44	28	26.24	48 28	14.82	51	98.48	58 10	12.52	22	72.11	9 39	15.55	59	20.95	8 59	15.74	55	9.71	12 14
10.93	31	26.81	47 45	15.74	58	99.65	54 10	15.74	23	72.32	7 38	14.91	41 3	21.70	7 33	11.31	40 0	10.49	13 10
14.22	33	27.22	47 45	15.74	39 0	99.93	51 28	15.74	25	72.69	7 41	14.77	3	21.70	5 44	14.45	3	11.17	15 15
15.74	42	28.81	42 31	14.22	2	0.28	54 11	14.77	30	73.45	5 58	13.66	4	21.93	9 22	14.77	10	12.38	14 56
15.74	44	29.13	41 32	15.74	5	0.86	53 14	14.91	39	75.13	4 35	13.70	9	22.77	7 50	15.06	12	12.68	19 26
15.74	42 1	32.20	44 53	10.58	13	2.22	52 10	14.91	49	76.94	7 14	15.01	10	22.92	2 57	13.49	16	13.36	12 30
11.51	4	32.59	46 56	11.91	15	2.70	51 59	14.91	37 3	79.29	8 00	15.40	13	23.45	4 45	12.32	22	14.50	11 49
15.74	12	34.14	45 22	14.54	17	3.06	51 31	15.25	10	80.59	3 51	14.68	15	23.77	2 09	13.66	39	17.49	15 57
14.91	34 49	55.53	52 21	15.74	35	6.17	56 02	14.91	14	81.32	1 20	14.91	16	23.95	5 08	13.19	45	18.41	19 53
10.68	52	56.04	57 53	13.28	44	7.77	54 04	13.70	19	82.23	4 07	14.36	26	25.80	4 17	15.74	41 6	22.23	15 10
15.06	53	56.29	58 21	15.74	46	8.21	58 40	7.83*	21	82.60	9 35	13.87	30	26.54	7 34	11.71	25	25.44	14 19
14.31	53	56.33	58 27	15.74	47	8.24	57 52	13.87	25	83.15	0 28	14.82	46	29.32	0 10	13.44	35	27.30	13 08
15.25	58	57.20	57 34	14.22	48	8.44	57 53	15.40	51	87.76	5 17	13.49	42 8	33.11	9 12	13.70	46	29.31	18 50
14.73	35 5	58.38	50 24	15.06	49	8.74	55 49	15.30	54	88.29	8 47	13.15	13	34.05	1 33	15.40	48	29.55	15 03
14.91	18	60.61	58 50	14.54	50	8.92	53 44	15.74	38 12	91.57	8 14	14.54	16	34.63	8 24	15.74	48	29.63	18 43
15.74	22	61.49	56 33	13.87	59	10.39	51 05	11.59	22	93.22	9 57	15.74	34 44	55.10	12 42	14.59	49	29.78	14 10
14.09	25	61.86	57 29	13.70	40 6	11.65	52 59	15.40	28	94.38	8 05	15.74	52	56.33	18 02	12.86	59	31.55	17 54
13.23	29	62.66	50 16	9.92	11	12.55	50 18	15.74	29	94.51	5 44	15.74	35 0	57.69	17 19	14.91	42 3	32.19	13 04
15.74	29	62.70	54 30	13.70	31	16.12	54 42	14.59	43	96.95	2 01	10.65	0	57.74	10 51	12.73	9	33.28	13 37
13.57	35	63.62	53 16	11.71	33	16.40	52 51	14.82	45	97.43	3 16	12.11	3	58.34	13 31	14.22	10	33.39	10 07
14.86	37	64.12	50 02	15.74	37	17.09	51 50	14.91	45	97.43	0 24	13.87	16	60.59	15 02	14.68	19	34.96	19 57
15.55	39	64.34	54 06	15.06	37	17.15	56 07	14.13	53	98.72	6 23	15.15	40	64.89	16 35	14.91	34 47	55.68	27 15
13.02	41	64.74	59 14	12.24	44	18.40	50 19	15.25	56	99.25	3 44	12.11	44	65.46	13 42	13.78	35 4	58.53	23 41
15.74	47	65.74	59 33	14.31	46	18.79	52 22	15.74	39 5	0.96	3 02	13.23	36 4	69.10	18 10	14.31	5	58.79	27 01
15.74	53	66.85	58 41	15.15	48	19.05	54 17	14.82	7	1.20	4 22	13.57	32	73.92	15 10	14.22	10	59.70	21 51
15.74	55	67.23	59 15	13.78	58	20.98	51 54	15.55	18	3.10	9 37	14.36	35	74.51	12 11	14.59	14	60.34	20 59
14.00	59	68.02	59 31	10 54	59	21.12	52 17	15.74	21	3.76	7 04	14.54	43	75.90	11 44	14.59	15	60.52	24 34
15.01	36 10	69.88	55 36	13.91	41 0	21.16	58 05	15.74	24	4.21	6 28	15.06	37 3	79.43	13 47	15.74	18	61.08	25 26
15.40	12	70.17	58 06	12.52	4	22.03	50 37	14.82	26	4.64	8 18	15.01	7	80.07	17 00	14.68	23	61.98	25 21
15.06	16	70.97	52 49	14.31	12	23.28	53 06	14.82	32	5.69	2 46	14.91	18	82.11	17 56	14.68	36 4	69.04	23 20
13.66	20	71.69	51 53	15.55	13	23.61	56 41	14.59	39	6.93	6 50	14.54	22	82.80	15 40	14.77	9	69.99	23 17
15.30	33	73.92	52 58	12.73	17	24.25	53 37	15.40	39	6.94	9 09	13.28	24	83.04	12 14	14.77	20	71.90	20 23
15.55	39	74.98	58 55	15.74	28	26.16	51 35	15.01	50	8.79	6 31	14.91	46	87.05	18 31	14.36	35	74.52	29 36
12.32	41	75.42	52 27	14.00	35	27.49	59 30	14.77	40 3	11.05	1 18	15.74	47	87.16	19 11	14.54	37	74.89	29 47
12.52	53	77.60	52 54	11.71	38	27.96	58 43	15.40	5	11.39	7 21	14.36	52	87.96	12 37	14.31	39	75.20	27 08
11.12	55	77.84	58 55	15.74	42 0	31.80	53 42	15.74	12	12.63	1 58	14.00	38 19	92.71	18 38	10.00	41	75.65	29 47
14.91	37 1	79.00	50 22	13.44	2	32.25	51 53	13.70	13	12.89	0 50	14.09	24	93.61	17 40	15.30	47	76.73	21 17
15.55	7	80.08	50 08	15.25	5	32.73	56 34	14.82	14	13.05	9 55	15.74	31	94.83	14 39	14.36	59	78.72	24 24
15.15	15	81.44	56 49	15.40	8	33.21	56 25	12.73	18	13.83	7 27	15.25	55	99.15	10 59	11.91	37 0	78.85	22 35
14.22	26	83.33	55 07	14.82	12	34.01	51 18	14.45	19	13.93	0 37	15.06	57	99.56	10 28	15.74	2	79.31	20 32
12.52	35	84.88	52 15	14.13	34 53	56.38	5 43	15.01	21	14.25	9 43	14.96	39 1	0.18	10 06	14.22	14	81.34	24 51
12.86	36	85.22	56 11	15.25	35 22	61.51	2 07	14.68	21	14.27	6 55	14.77	6	1.02	19 23	14.22	15	81.61	24 47
14.45	52	87.88	55 13	11.51	28	62.61	2 29	15.55	21	14.35	3 25	14.82	15	2.67	17 05	14.09	20	82.42	27 47
14.59	54	88.40	58 47	15.30	38	64.34	6 20	14.77	37	17.10	1 32	14.91	20	3.58	16 44	15.74	29	84.01	22 27
11.12	38 2	89.69	56 54	15.30	44	65.45	7 02	12.86	44	18.27	8 48	10.68	30	5.31	10 39	15.74	35	85.02	25 49
14.82	3	89.93	51 51	10.42	45	65.53	0 24	14.36	46	18.79	7 54	15.40	35	6.22	19 00	15.01	40	86.00	22 39

25 prec. + 96 sec. — 6′ 49″.

9^h Area 29. $+45°$

501—510				511—520				521—530			
Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.87	37 48	87.37	29 11	14.91	39 20	3.43	23 54	15.55	40 50	19.30	22 27
15.11	51	87.84	20 07	15.15	30	5.34	23 12	15.74	53	19.82	21 03
14.22	38 13	91.78	23 16	11.51	32	5.64	25 36	13.78	59	20.94	29 52
15.01	23	93.57	26 03	15.74	46	8.00	21 42	15.55	41 37	27.52	26 27
14.45	36	95.87	22 15	15.25	50	8.73	22 31	13.78	37	27.55	21 18
10.14	39	96.37	24 09	15.74	57	9.95	24 00	13.57	41	28.24	25 48
14.68	58	99.72	27 16	12.32	40 4	11.21	24 09	14.54	46	29.21	20 11
13.36	39 1	0.25	23 47	14.00	19	13.79	26 12	14.31	50	29.76	22 19
14.91	5	0.92	22 03	14.45	29	15.67	21 53	14.77	42 10	33.43	22 27
15.74	19	3.37	23 26	15.01	43	18.00	26 08	13.44	14	34.05	29 36

25 prec. + 96 sec. — 6′ 51″.

10^h Area 30. Centre for 1900: $10^h\ 37^m + 45°\ 10′$. $+44°$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.68	33 44	65.03	31 21	14.84	37 21	3.67	34 48	14.09	33 39	64.25	42 20	12.88	37 1	0.16	45 26	14.63	40 9	33.48	48 28
15.36	45	65.35	34 41	15.14	28	4.96	37 53	16.16	50	66.33	46 10	14.71	2	0.29	45 37	15.01	11	33.87	42 15
16.16	56	67.16	36 32	15.01	37	6.58	36 49	15.10	53	66.73	40 30	16.16	2	0.31	46 51	15.01	26	36.52	43 03
15.97	34 7	69.19	31 47	15.73	42	7.44	30 22	16.16	54	67.03	49 36	14.50	2	0.41	43 39	14.01	30	37.20	44 42
10.54	22	71.81	33 59	16.16	46	8.26	37 54	16.16	34 12	70.21	44 47	15.45	6	1.01	40 59	15.50	40	38.97	42 32
16.16	34	74.02	31 02	14.63	50	8.84	37 03	13.29	12	70.22	46 22	13.29	15	2.62	45 41	16.16	56	41.99	46 48
16.16	51	77.01	35 27	15.97	38 3	11.24	34 56	15.82	21	71.68	41 33	15.01	16	2.79	49 17	16.16	59	42.41	47 24
15.27	56	77.96	31 35	16.16	6	11.67	35 51	12.88	23	72.18	41 00	14.58	22	3.89	41 52	14.92	59	42.51	44 36
16.16	57	78.17	39 52	15.50	11	12.62	38 18	16.16	25	72.49	46 13	15.59	22	3.97	40 58	16.16	41 7	43.86	48 56
15.82	35 1	78.82	39 02	15.59	15	13.31	33 45	15.01	26	72.61	43 59	13.97	24	4.25	40 45	15.23	33 44	65.37	57 30
12.47	2	78.92	39 33	16.16	31	16.23	32 15	15.36	27	72.88	42 52	15.50	31	5.52	44 55	16.16	46	65.60	58 30
15.36	6	79.73	36 08	13.69	33	16.49	30 34	14.29	29	73.20	43 11	12.67	35	6.17	47 41	14.92	34 0	68.06	59 10
12.74	18	81.89	34 59	15.01	50	19.54	30 35	15.36	34	74.10	42 05	16.16	36	6.37	47 56	14.84	4	68.93	54 40
13.41	27	83.55	39 07	12.88	39 15	23.97	39 34	15.45	44	75.81	44 34	13.00	44	7.91	46 21	14.71	11	70.17	57 33
11.06	29	83.81	32 03	12.07	18	24.61	36 32	16.16	35 3	79.32	49 26	15.59	49	8.75	47 22	15.05	27	72.99	58 04
16.16	32	84.31	35 13	14.50	19	24.82	35 12	15.14	7	79.98	47 26	15.97	58	10.35	42 22	16.16	28	73.18	59 56
15.45	39	85.62	39 30	15.97	20	24.85	36 41	13.29	16	81.55	42 50	15.45	38 9	12.17	42 50	11.62	39	74.98	59 44
14.92	43	86.29	38 12	16.16	49	30.09	36 19	15.05	25	83.20	46 49	14.38	27	15.45	46 38	12.80	48	76.63	59 44
16.16	46	86.75	35 44	16.16	52	30.66	32 31	15.82	26	83.28	41 48	16.16	48	19.23	45 18	15.36	35 0	78.82	59 08
15.05	53	88.04	30 59	16.16	55	31.25	39 10	15.68	29	83.84	42 08	14.92	50	19.52	42 48	14.01	52	87.94	59 56
11.69	55	88.37	39 18	13.41	40 1	32.21	38 13	13.97	30	83.94	41 17	15.05	51	19.71	49 01	13.37	36 4	90.09	58 55
15.23	36 2	89.75	36 54	14.50	4	32.85	38 51	13.29	30	84.08	42 16	14.63	54	20.15	43 31	16.16	5	90.23	58 02
15.05	11	91.37	37 40	15.50	10	33.92	38 30	13.89	35	84.82	41 56	14.09	55	20.44	49 18	15.05	6	90.50	57 25
15.97	18	92.43	33 20	15.14	23	36.11	30 12	15.59	39	85.57	48 04	14.42	39 0	21.24	42 52	13.08	26	93.91	58 35
16.16	21	93.13	34 01	15.05	25	36.43	37 58	15.59	57	88.74	48 45	15.64	7	22.58	40 22	15.73	27	94.19	58 51
15.50	24	93.62	35 30	15.97	25	36.48	37 19	13.49	36 7	90.52	43 17	15.59	17	24.38	42 13	16.16	31	94.85	51 33
14.71	25	93.73	32 12	15.23	35	38.25	38 51	11.69	12	91.42	40 56	14.17	18	24.45	47 18	13.08	33	95.28	51 54
14.09	37 8	1.41	33 43	8.33	41	39.42	38 02	15.82	17	92.43	43 52	16.16	33	27.20	47 05	12.07	42	96.89	55 13
15.45	14	2.52	39 15	14.92	49	40.79	34 09	15.73	29	94.45	47 21	15.97	40	28.50	49 01	11.69	51	98.35	58 37
15.27	15	2.64	38 31	15.97	41 5	43.59	31 41	14.38	39	96.25	49 05	15.05	57	31.43	44 04	15.36	37 1	0.24	52 38

25 prec. + 88 sec. — 7′ 49″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	$y+70'$ / $y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.36	37 10	1.81	55 52	15.97	35 33	84.62	5 08	14.63	34 48	76.72	16 28	16.16	39 44	28.92	10 45	13.29	37 24	4.28	25 21
15.36	19	3.38	56 14	15.45	53	88.12	8 16	15.50	50	77.07	19 52	15.68	47	29.34	11 30	8.83	32	5.69	28 28
16.16	24	4.17	51 17	15.73	36 22	93.37	0 42	15.36	59	78.65	16 56	15.97	47	29.46	14 57	15.05	35	6.19	27 36
15.50	29	5.08	58 38	11.51	23	93.38	8 33	11.51	35 3	79.49	16 33	14.29	52	30.22	19 38	15.01	36	6.29	28 07
14.92	33	5.81	50 57	16.16	26	94.06	0 16	13.29	14	81.36	18 12	14.09	58	31.25	10 55	15.82	36	6.30	29 06
14.92	39	6.98	59 08	15.05	27	94.13	4 29	16.16	15	81.52	18 55	15.73	59	31.45	10 51	16.16	38	6.60	21 39
15.23	44	7.86	57 24	16.16	37	95.98	2 09	15.73	21	82.52	16 08	15.82	40 16	34.51	15 14	14.29	40	6.98	28 53
15.36	50	8.76	51 40	14.79	37 0	0.03	1 31	11.69	25	83.30	12 26	15.68	27	36.36	17 09	15.50	48	8.41	22 10
15.23	53	9.43	55 43	14.38	1	0.11	7 42	14.84	26	83.37	11 09	11.69	30	37.01	11 07	13.29	55	9.70	29 03
15.27	38 18	13.79	59 50	16.16?	14	2.53	4 16	14.79	28	83.78	15 38	15.68	38	38.43	11 00	13.08	38 11	12.42	28 07
13.81	21	14.39	58 59	10.07	21	3.69	9 07	14.79	32	84.44	15 10	14.25	47	39.93	19 44	14.84	12	12.59	26 02
16.16	39	17.50	55 08	14.29	30	5.26	3 51	16.16	34	84.88	15 47	16.16	48	40.21	15 25	16.16	16	13.35	25 48
15.05	43	18.15	57 30	14.21	33	5.88	8 24	16.16	35	85.06	15 56	14.92	54	41.25	18 48	15.97	29	15.57	26 02
14.09	53	19.99	55 27	12.27	43	7.62	6 36	15.23	45	86.73	12 10	16.16	55	41.28	12 51	13.49	53	19.79	23 10
16.16	39 0	21.26	54 58	14.01	55	9.71	6 49	15.23	46	86.99	12 46	14.67	58	41.88	19 45	15.45	39 7	22.27	22 53
15.10	2	21.60	50 01	11.33	38 2	10.95	9 59	15.01	51	87.91	13 25	15.36?	33 47	66.09	22 53	9.04	23	25.18	29 47
14.71	3	21.70	59 16	11.51	9	12.12	1 02	14.42	52	87.95	14 09	15.27	48	66.38	29 34	16.16	24	25.31	28 50
12.67	17	24.34	58 39	15.36	12	12.74	3 04	16.16	52	88.02	16 56	15.45	51	66.80	25 48	13.08	39	27.82	22 41
14.29	18	24.35	54 37	16.16	26	15.16	1 32	15.45	54	88.42	19 03	14.63	53	67.15	26 09	14.50	40	28.05	27 53
15.50	20	24.73	51 26	14.63	32	16.22	4 08	16.16	56	88.80	17 21	15.45	58	68.14	25 41	13.97	46	29.14	22 19
16.16	26	25.87	54 30	14.63	38	17.32	4 08	14.58	58	89.02	12 01	11.69	34 5	69.24	20 06	15.45	49	29.70	21 08
16.16	29	26.39	55 44	15.48	50	19.35	3 05	15.50	36 2	89.78	13 09	15.97	9	70.02	20 42	13.57	53	30.44	21 13
16.16	31	26.67	56 14	15.45	57	20.65	0 14	16.16	20	93.00	16 25	16.16	14	70.88	27 35	16.16	54	30.48	23 31
12.88	39	28.11	57 49	15.23	39 15	23.76	4 02	15.36	30	94.79	12 45	13.69	43	75.88	28 07	12.07	40 0	31.62	24 17
16.16?	40 17	34.95	56 22	16.16	15	23.90	4 43	15.05	40	96.44	13 49	13.08	50	77.16	24 15	15.73	2	31.87	25 53
13.29	19	35.28	56 58	16.16	29	26.36	0 15	13.29	51	98.47	11 19	15.05	52	77.51	23 07	14.21	32	37.13	29 09
15.01	20	35.48	55 43	16.16	48	29.69	5 46	14.38	37 2	0.27	14 37	15.05	35 13	81.19	23 41	15.68	35	37.81	21 04
14.17	21	35.57	58 24	13.41	52	30.35	5 12	15.23	5	0.94	14 00	14.92	17	82.00	24 01	15.97	36	37.87	26 14
15.14	27	36.71	56 52	14.09	55	30.97	5 58	15.36	6	1.02	18 25	15.36	33	84.70	26 39	14.92	42	38.88	28 47
14.75	36	38.20	50 18	14.58	40 8	33.11	2 40	14.63	10	1.69	11 29	13.89	39	85.81	23 37	15.73	42	38.99	25 39
15.05	41	39.10	52 41	13.08	10	33.60	8 53	15.50?	16	2.80	12 36	15.68	56	88.79	27 49	15.01	46	39.63	22 28
15.50	44	39.64	54 14	15.59	11	33.71	1 38	15.73	24	4.17	11 19	14.84	56	88.80	22 04	16.16	41 5	43.04	20 57
14.63	54	41.35	52 52	11.06	23	35.80	1 03	15.14	26	4.61	11 01	15.45	58	89.15	25 10	13.29	8	43.50	23 26
14.92	54	41.50	50 24	15.45	27	36.62	1 30	15.97	39	6.78	11 47	15.50	36 3	90.01	24 45	16.16	8	43.52	26 53
13.08	33 47	65.96	0 39	15.50	28	36.69	2 42	15.82	41	7.27	16 05	16.16	10	91.28	22 19	11.51	33 38	64.63	32 13
15.45	52	66.79	8 00	16.16	37	38.33	7 18	15.59	53	9.42	18 35	15.82	10	91.29	28 13	15.36	44	65.65	38 45
15.36	34 2	68.62	0 46	16.16	42	39.25	7 59	15.59	38 12	12.60	14 29	15.68	11	91.41	23 18	15.23	52	67.15	35 13
16.16	6	69.25	8 02	16.16	55	41.54	9 18	14.92	16	13.38	12 05	13.89	20	92.91	27 38	15.01	34 2	68.87	35 38
14.92	17	71.29	7 01	16.16	56	41.58	5 12	9.73	19	13.95	12 15	13.49	29	94.55	21 03	15.23	5	69.43	35 57
14.71	18	71.35	8 59	14.84	33 40	64.75	12 03	15.05	24	14.85	12 31	15.50	42	96.88	24 22	14.67	5	69.44	39 58
15.59	20	71.72	4 11	14.17	51	66.74	11 13	15.97	46	18.62	16 13	15.36	44	97.21	22 18	15.01	11	70.49	37 06
15.27	22	72.20	5 47	11.69	54	67.27	11 18	15.68	49	19.11	12 28	15.97	49	98.12	29 31	15.27	14	70.95	39 42
13.89	23	72.20	0 57	15.05	59	68.13	17 23	16.16	55	20.29	14 12	15.27	37 4	0.77	27 23	15.14	20	71.97	38 22
15.14	38	75.01	8 47	15.73	34 4	68.94	15 47	15.23	39 1	21.21	10 38	14.84	5	0.88	28 48	15.97	22	72.31	31 32
12.67	41	75.41	4 17	16.16	5	69.29	17 13	15.27	7	22.42	14 14	15.50	12	2.09	26 23	13.41	23	72.57	35 02
16.16	42	75.69	8 50	13.29	19	71.71	18 18	15.50	22	25.01	14 18	15.14	16	2.88	26 04	13.97	25	72.81	37 56
16.16	35 1	78.98	0 29	15.36	23	72.39	12 36	16.16	33	27.02	17 50	13.41	18	3.23	26 01	15.59	35 0	78.97	33 52
11.69	2	79.15	5 37	15.36	23	72.41	15 57	15.50	34	27.14	18 41	15.45	19	3.27	23 07	10.65	10	80.84	37 08
13.41	3	79.36	7 49	14.92	28	73.18	12 32	16.16	41	28.43	18 14	15.97	20	3.54	27 20	13.61	13	81.33	33 22
15.73	5	79.71	7 13	15.68	36	74.62	13 58	12.27	43	28.62	17 58	15.82	23	4.10	29 25	13.29	18	82.11	35 32

25 prec. + 89 sec. — 7′ 49″.

10^{h} **Area 30.** $+45^{\circ}$

401—430				431—460				461—490				491—515			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.69	35 18	82.18	37 06	15.50?	39 22	24.83	33 10	15.45	35 45	86.84	44 11	16.16	38 31	15.81	45 34
13.69	21	82.72	32 09	15.36	44	28.78	37 42	15.59	53	88.26	49 41	16.16	37	16.95	48 15
14.92	25	83.34	33 22	14.17	45	28.88	37 01	13.08	56	88.91	46 03	13.89	41	17.67	40 33
14.13	36 1	89.75	39 33	15.36	55	30.64	38 09	15.14	36 8	90.94	45 08	11.88	44	18.20	46 12
16.16	9	91.08	30 58	11.00	40 15	34.12	35 57	15.27	9	91.06	46 16	15.82	44	18.23	46 47
16.16	13	91.81	33 31	15.14	22	35.42	36 07	15.36	11	91.49	48 13	11.51	58	20.55	44 37
15.36	20	92.99	38 47	15.14	26	36.07	35 43	12.67	13	91.79	45 20	16.16	39 9	22.53	46 45
15.23	21	93.20	37 37	15.68	43	39.04	35 27	16.16	13	91.81	48 48	15.50	11	22.94	46 27
16.16	24	93.71	34 38	15.82	53	40.81	35 20	13.61	13	91.88	46 59	15.23	14	23.29	40 53
16.16	33	95.22	36 53	14.50	55	41.14	35 47	16.16	16	92.33	47 43	15.50	20	24.51	46 32
15.05	41	96.70	35 59	11.62	41 1	42.18	39 20	12.47	20	93.03	47 14	16.16	24	25.05	45 35
13.29	46	97.58	36 10	11.51	4	42.70	30 32	15.59	30	94.80	40 42	13.08	44	28.53	48 43
10.85	48	97.82	30 59	15.97	8	43.41	39 00	15.50	33	95.33	49 04	15.45	44	28.57	40 28
12.47	49	98.09	37 31	14.29	33 35	64.27	46 05	16.16	46	97.63	48 55	16.16	40 15	34.00	48 15
13.49	50	98.20	37 34	15.45	37	64.54	43 37	14.92	51	98.48	48 38	13.69	18	34.58	42 59
15.50	54	98.94	33 27	15.68	44	65.82	49 05	11.16	56	99.30	42 37	11.00	26	35.87	42 39
11.33	56	99.25	35 19	16.16	45	65.91	40 57	16.16	56	99.33	45 46	11.51	28	36.23	43 09
14.96	57	99.53	30 03	16.16	53	67.37	47 20	14.71	37 0	99.92	49 37	14.50	31	36.84	47 25
14.58	37 3	0.46	31 30	15.82	59	68.45	45 32	13.69	3	0.50	48 08	16.16	38	38.01	49 09
16.16	46	8.09	36 02	16.16	34 3	69.12	43 00	15.73	9	1.71	46 54	12.47	39	38.13	47 11
14.29	38 4	11.20	36 40	13.81	9	70.21	40 34	13.69	12	2.09	46 16	11.51	41	38.57	43 06
15.27	9	12.13	33 39	14.84	14	70.98	40 59	13.69	16	2.83	42 27	13.49	48	39.75	48 40
15.27	20	14.04	31 51	15.01	19	71.86	44 12	11.16	26	4.57	42 33	13.29	48	39.79	43 06
14.58	26	15.07	33 38	16.16	23	72.56	43 18	15.97	40	7.06	46 55	16.16	49	39.98	47 16
13.69	39	17.34	39 13	15.97	24	72.75	49 53	12.88	43	7.49	46 43	16.16	51	40.35	42 22
13.69	41	17.69	37 54	15.82	41	75.75	48 25	14.38	49	8.55	46 15				
14.92	49	19.12	35 09	15.73	49	77.09	46 16	14.42	38 4	11.23	42 39				
15.36	54	20.01	38 32	15.27	35 1	79.29	49 21	15.50	18	13.53	48 28				
15.36	39 9	22.50	32 42	14.92	2	79.35	47 50	15.73	25	14.77	41 53				
15.45	22	24.76	33 24	14.50	39	85.89	45 03	15.50	29	15.51	48 04				

25 prec. + 89 sec. — 7′ 49″.

11^{h} **Area 31. Centre for 1900: $11^{\mathrm{h}}\ 37^{\mathrm{m}} + 44^{\circ}\ 40'$.** $+44^{\circ}$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.78	33 30	62.37	4 22	13.34	36 33	95.18	3 34	15.78	38 26	15.40	8 57	15.78	33 21	60.77	16 38	13.89	37 5	0.85	13 13
12.42	31	62.48	1 29	15.78	53	98.78	1 10	12.96	33	16.72	0 10	14.62	41	64.33	18 10	15.78	14	2.56	11 53
11.13	48	65.46	4 58	15.78	37 8	1.40	8 25	13.23	52	20.03	0 48	14.23	41	64.38	12 40	15.78	23	4.05	11 45
15.78	34 6	68.68	8 57	15.28	22	4.03	3 02	13.23	52	20.06	0 06	13.89	52	66.40	14 42	15.78	39	6.93	12 01
15.44	50	76.66	8 25	13.95	25	4.44	8 50	15.06	39 19	24.89	9 02	15.06	34 35	74.00	15 40	15.78	38 7	11.96	10 02
15.33	35 21	82.16	4 49	15.59	34	6.14	4 21	14.90	25	25.96	1 56	15.78	50	76.73	11 13	12.15	13	13.03	19 04
14.51	24	82.79	7 34	15.59	42	7.61	8 23	14.90	32	27.38	4 58	13.78	35 1	78.68	13 33	15.44	16	13.55	18 17
15.78	44	86.44	6 49	14.17	52	9.41	5 33	14.62	37	28.26	9 26	15.78	4	79.16	16 26	15.78	24	14.98	19 22
14.45	49	87.21	8 56	15.78	38 3	11.32	0 53	14.00	40 1	32.42	9 46	14.45	16	81.44	12 42	12.58	40	17.93	19 25
15.06	36 15	91.96	6 20	9.47	11	12.73	7 02	13.95	26	37.02	9 01	14.79	26	83.12	13 20	10.42	44	18.70	13 17

25 prec. + 80 sec. — 8′ 19″.

11^h

Area 31.

+ 44°, + 45°

51—100				101—150				151—200				201—250				251—294			
Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′ / y−20′	Int. magn.	α	x	y−20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.23	39 18	24.71	19 36	13.95	40 6	33.19	22 10	12.42	36 21	93.07	40 35	15.78	35 16	81.54	55 38	12.69	38 39	17.49	4 39
12.42	28	26.47	14 47	15.59	13	34.46	29 00	15.78	30	94.60	48 02	14.34	17	81.85	55 30	15.01	51	19.61	0 57
13.12	31	27.08	10 02	13.78	21	35.87	27 36	10.89	33	95.15	45 40	10.89	31	84.25	50 51	7.95	39 1	21.28	2 48
15.59	39	28.46	10 16	13.78	33 11	59.15	33 41	15.78	52	98.50	48 25	15.59	51	87.75	56 00	14.45	25	25.54	4 37
15.78	54	31.18	19 01	9.13	12	59.45	38 50	9.24	54	99.00	41 49	13.89	36 7	90.54	51 33	12.69	27	25.97	6 26
12.31	56	31.45	11 58	14.73	22	61.17	33 12	10.65	59	99.79	43 36	13.39	17	92.30	53 54	15.78	30	26.42	5 34
15.78	40 5	33.08	12 42	15.28	22	61.22	36 20	14.17	37 7	1.15	43 11	13.89	30	94.75	58 16	15.06	33	27.08	7 01
15.78	14	34.65	11 13	13.23	31	62.77	34 08	13.95	18	3.19	47 11	13.67	31	94.84	58 32	15.78	43	28.70	5 23
13.67	33	38.23	12 58	15.78	52	66.60	39 39	15.78	22	3.82	40 16	15.78	33	95.25	59 15	15.17	40 18	34.87	8 39
15.78	33 24	61.41	20 02	10.89	58	67.58	39 14	15.78	25	4.51	43 46	10.46	48	97.94	57 00	13.50	36	38.21	7 04
11.38	29	62.36	21 32	15.17	34 31	73.41	34 31	15.78	34	6.00	44 17	14.06	37 1	0.09	52 26	14.34	33 23	61.73	18 39
15.33	41	64.51	28 48	14.73	41	75.18	32 47	14.90	35	6.25	44 48	11.63	1	0.20	58 40	14.06	35	63.85	12 36
15.59	47	65.51	22 33	12.15	45	75.92	34 58	15.33	37	6.64	43 37	15.78	5	0.85	50 36	15.01	51	66.75	17 00
11.38	48	65.79	28 19	12.15	47	76.39	35 34	15.78	48	8.56	40 52	14.51	15	2.63	53 16	14.45	57	67.80	16 59
14.34	34 5	68.69	26 43	15.78	51	76.98	34 15	15.17	55	9.79	47 05	15.78	55	9.68	59 52	15.78	34 38	75.07	15 54
14.90	29	73.12	28 06	15.28	35 14	81.07	34 02	13.78	38 2	11.02	45 47	15.78	38 9	12.17	59 22	15.78	45	76.29	15 28
10.33	38	74.71	20 54	14.06	33	84.45	38 29	14.06	5	11.47	43 20	12.69	29	15.71	53 10	15.01	35 12	80.97	14 52
14.62	42	75.45	24 27	14.62	41	85.89	34 15	14.17	7	11.94	43 47	11.79	32	16.35	51 11	15.06	20	82.45	13 26
13.89	51	77.05	23 43	7.67*	36 1	89.51	33 43	15.78	8	12.08	47 28	15.33	41	17.86	58 49	15.78	39	85.80	19 54
13.39	56	77.85	26 15	13.50	4	90.02	38 38	11.38	26	15.27	44 14	15.17	39 2	21.56	54 26	11.89	52	88.06	14 38
14.23	35 16	81.46	20 45	15.59	7	90.58	34 41	14.62	30	15.91	47 10	11.38	37	27.74	56 03	11.89	36 13	91.72	12 57
15.78	20	82.21	22 06	14.79	15	91.95	32 22	11.38	30	15.97	44 03	14.90	39	28.07	55 49	15.78	14	91.89	17 02
11.13	24	82.87	27 09	14.17	22	93.17	36 30	10.89	30	16.00	44 08	13.39	40 14	34.34	50 57	14.51	15	92.08	12 52
15.78	30	84.01	24 23	14.23	23	93.33	38 26	15.44	53	19.99	42 12	12.26	37	38.42	59 30	11.89	21	93.15	11 50
15.33	37	85.18	24 08	13.50	51	98.35	33 48	15.59	39 1	21.44	49 48	13.95	33 42	65.00	1 34	15.01	48	97.85	10 14
14.34	39	85.61	29 14	15.06	37 1	0.14	38 05	15.06	14	23.86	44 42	13.89	49	66.25	2 08	15.06	55	99.13	12 58
13.34	36 12	91.43	25 47	15.78	14	2.50	36 30	13.50	19	24.75	46 29	14.45	51	66.70	9 55	14.79	37 13	2.29	10 46
15.78	17	92.35	24 37	15.28	15	2.64	32 03	15.17	55	31.07	42 16	12.42	34 3	68.83	1 34	10.16	18	3.20	11 28
14.17	19	92.65	20 53	15.17	31	5.43	32 32	12.96	40 35	38.20	41 49	15.06	14	70.67	1 26	14.90	22	3.82	12 43
15.78	36	95.70	25 38	14.51	55	9.82	33 13	13.61	33 38	64.24	55 56	8.52	24	72.42	4 31	15.78	26	4.63	17 49
14.73	39	96.34	27 21	15.78	58	10.30	32 32	15.78	45	65.53	56 30	15.28	44	75.91	3 13	13.95	36	6.25	14 14
12.69	37 0	0.08	26 28	15.06	59	10.50	33 05	15.33	45	65.54	53 28	15.78	47	76.52	1 27	14.90	39	6.79	16 54
8.42	17	2.95	20 41	13.67	39 4	22.15	35 15	15.78	46	65.66	58 40	15.78	55	77.94	2 46	15.78	49	8.69	13 31
15.44	50	8.90	28 24	14.62	32	26.98	33 03	8.88	47	65.82	51 40	11.89	35 1	78.99	4 12	13.12	51	9.00	14 23
14.45	54	9.59	27 54	10.65	55	31.12	31 37	9.84	49	66.11	54 31	15.78	14	81.24	0 16	14.73	55	9.72	18 09
12.96	38 13	12.99	21 48	15.59	40 3	32.65	36 41	13.95	54	67.06	55 42	14.34	20	82.33	0 29	14.34	38 0	10.50	16 40
14.73	52	19.92	22 55	14.73	22	36.03	36 29	15.78	55	67.24	56 14	15.78	43	86.38	9 34	11.38	15	13.24	16 28
15.28	59	21.30	25 13	15.78	39	38.91	35 20	10.65	57	67.66	58 57	13.89	55	88.45	3 50	15.78	54	20.12	15 02
15.17	39 2	21.86	28 01	15.22	33 21	61.11	40 05	13.95	34 0	68.06	56 45	15.01	58	88.99	4 07	15.59	39 16	23.95	19 29
13.89	8	22.90	22 11	14.90	44	65.24	45 09	13.23	3	68.62	54 19	14.90	36 8	90.76	3 46	12.69	36	27.43	15 40
13.89	10	23.27	21 41	14.79	34 9	69.64	49 01	11.13	11	70.04	53 01	15.01	39	96.36	5 34	11.89	40 13	34.00	14 21
13.78	13	23.82	26 36	14.90	23	72.18	44 59	15.06	24	72.39	53 55	15.78	58	99.66	9 29	15.78	25	36.09	14 01
15.78	24	25.66	27 34	12.26	50	76.90	40 10	12.96	26	72.71	56 01	14.40	37 19	3.27	0 14	15.78	26	36.34	14 41
15.78	29	26.60	22 02	14.79	54	77.66	42 37	15.78	26	72.73	51 57	13.67	23	4.10	3 05	15.78	29	36.76	10 26
12.31	32	27.07	24 14	13.95	35 19	82.05	49 06	15.78	40	75.26	54 19	13.34	38	6.70	8 10				
14.23	51	30.46	24 12	15.78	30	84.10	43 54	12.42	42	75.59	52 31	15.78	43	7.64	4 54				
13.89	52	30.78	22 15	15.78	32	84.30	40 15	15.44	54	77.76	57 30	13.50	38 0	10.60	3 10				
15.59	58	31.73	25 27	13.95	49	87.45	44 03	14.90	55	77.94	56 15	9.82	9	12.12	6 07				
15.33	40 2	32.48	26 45	15.78	36 9	91.00	44 25	15.78	35 4	79.46	52 17	14.73	24	14.75	7 42				
13.84	4	32.79	29 52	8.72	21	93.04	45 01	15.28	15	81.46	51 46	15.33	30	15.94	5 23				

25 prec. + 80 sec. — 8′ 19″.

Area 32. Centre for 1900: $12^h\ 51^m + 44^\circ\ 50'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.77	46 56	56.37	18 44	12.73	52 09	12.33	17 34	16.77	51 28	4.98	23 32	16.77	49 52	87.98	35 27	14.15	50 11	91.34	47 19
14.99	47 9	58.55	13 20	16.77	25	15.30	12 49	15.45	28	5.03	29 01	15.04	59	89.08	32 46	16.77	12	91.39	41 54
14.48	18	60.22	14 09	16.77	29	15.90	12 45	14.62	39	7.00	23 53	14.53	50 1	89.41	31 42	15.04	14	91.90	44 56
16.43	23	61.21	12 47	13.72	45	18.79	11 15	16.23	44	7.79	22 18	16.02	2	89.74	30 31	16.77	15	92.09	48 01
15.95	28	62.00	14 04	15.75	53 3	22.09	19 30	13.43	52	9.38	26 38	14.53	6	90.40	34 44	13.85	20	92.85	44 16
16.29	29	62.22	15 07	13.11	6	22.59	12 11	13.85	56	9.93	29 16	15.57	8	90.82	36 26	16.23	26	93.99	45 57
14.38	35	63.34	13 09	15.57	15	24.22	17 47	14.02	57	10.26	27 06	12.54	22	93.16	39 12	16.43	32	95.08	41 11
15.75	39	64.01	14 29	16.58	16	24.43	16 45	16.77	52 3	11.22	20 39	14.73	23	93.35	34 33	16.77	44	97.15	43 10
16.77	40	64.25	11 32	16.77	21	25.18	17 27	12.00	4	11.37	29 01	15.95	23	93.45	34 56	15.95	52	98.57	41 46
14.99	42	64.48	13 26	16.77	51	30.67	19 20	15.27	12	12.78	23 15	14.99	51 0	0.02	31 45	16.58	51 4	0.63	45 00
15.33	43	64.77	17 26	16.58	52	30.75	11 25	15.75	15	13.32	21 04	15.75	11	2.02	35 08	16.77	26	4.57	43 46
14.06	47	65.47	15 41	10.80	54	31.22	15 53	15.15	32	16.48	21 32	14.24	13	2.33	39 40	10.42	27	4.72	47 57
10.14	55	66.92	18 59	16.77	56	31.43	19 49	11.83	50	19.65	29 00	16.02	21	3.70	30 20	15.04	27	4.85	43 26
15.95	48 2	68.16	11 08	12.18	54 1	32.41	16 07	8.36*	53	20.25	21 54	15.45	24	4.35	31 36	16.77	29	5.17	42 06
16.58	5	68.60	16 58	15.27	9	33.86	12 16	14.06	57	20.95	26 11	16.77	26	4.65	36 25	15.89	41	7.37	45 01
16.77	6	68.89	10 10	14.06	13	34.64	12 21	16.09	53 4	22.12	20 24	16.77	32	5.70	33 25	15.15	45	8.00	42 44
16.23	7	68.96	10 27	16.77	46 56	56.36	29 10	13.81	8	22.88	22 52	14.06	35	6.18	33 00	16.43	45	8.05	42 03
13.85	8	69.27	10 55	15.45	58	56.72	25 12	16.16	16	24.20	29 54	16.77	42	7.56	37 06	16.77	49	8.77	48 19
16.43	32	73.47	12 27	13.11	47 1	57.35	23 49	14.06	21	25.12	20 51	16.23	52	9.19	35 11	15.15	52	9.26	49 00
15.89	36	74.19	10 10	16.23	5	58.03	28 59	14.78	41	28.68	26 49	16.09	53	9.43	37 23	13.72	58	10.23	47 30
16.77	50	76.65	18 21	16.43	25	61.69	21 03	16.09	45	29.55	29 04	16.77	54	9.66	38 42	12.18	52 1	10.76	47 31
16.77?	49 3	79.02	14 25	15.75	35	63.37	27 39	16.77	52	30.80	21 23	15.15	59	10.43	34 54	16.58	7	11.98	49 37
14.99	4	79.17	10 12	16.77	43	64.74	29 09	10.93	54 4	32.77	21 17	15.89	52 3	11.19	37 42	12.73	10	12.39	48 03
16.29	8	80.02	15 42	15.89	50	66.07	21 54	14.11	6	33.28	20 22	13.31	19	14.14	37 33	16.77	14	13.12	49 28
16.23	12	80.59	10 03	15.57	55	66.99	25 04	15.57	11	34.05	21 10	14.24	24	14.91	37 41	15.75	29	15.78	40 43
14.24	23	82.54	12 34	13.85	48 0	67.92	27 11	16.77	16	34.96	28 47	11.51	27	15.46	33 02	15.95	32	16.30	44 23
14.38	30	83.92	12 51	16.09	5	68.78	24 18	15.95	46 53	56.02	37 06	11.83	41	18.00	33 31	16.43	40	17.82	43 29
16.58	37	85.21	13 35	16.77	14	70.28	21 23	16.29	55	56.30	38 38	12.00	49	19.38	34 38	15.45	41	17.89	46 09
15.63	40	85.74	12 33	16.58	23	71.94	20 22	16.77	56	56.54	38 08	16.77	53 29	26.51	37 31	14.15	48	19.21	48 51
15.95	51	87.70	19 27	15.89	36	74.25	28 30	15.15	59	57.05	32 33	15.75	48	29.98	32 05	12.18	53 13	23.63	41 10
14.48	56	88.57	10 32	16.77	57	78.03	21 13	9.40	47 4	57.97	34 18	15.39	55	31.21	30 38	11.51	24	25.61	42 23
13.11	59	89.02	17 50	16.77	49 32	84.35	27 45	14.62	8	58.74	31 41	16.43	59	31.93	32 54	13.85	25	25.83	46 17
13.11	50 4	90.05	13 24	15.75	36	85.03	27 01	13.81	13	59.64	35 13	16.77	54 2	32.36	31 39	15.75	35	27.60	43 03
16.77	11	91.17	13 24	16.77	37	85.13	27 54	16.77	30	62.66	32 29	15.57	12	34.16	31 29	14.24	37	27.91	42 10
16.77	26	93.83	11 20	16.77	41	85.97	26 00	15.95	35	63.52	31 22	11.83	46 57	56.88	43 00	16.58	45	29.29	44 06
16.23	26	93.95	16 24	14.15	49	87.28	25 10	16.58	37	63.90	37 14	16.43	59	57.16	42 25	14.48	53	30.66	44 12
15.95	37	95.84	12 55	16.09	53	88.02	29 50	15.89	58	67.64	34 27	15.15	47 11	59.27	48 36	13.81	57	31.44	44 49
14.53	47	97.75	14 51	15.95	50 0	89.24	22 32	16.77	48 3	68.50	32 52	15.04	16	60.29	47 22	14.15	54 4	32.76	47 52
14.88	53	98.71	11 17	11.07	0	89.29	24 20	15.04	6	68.97	33 10	15.95	45	65.39	46 58	16.23	8	33.36	48 10
13.72	57	99.41	10 35	16.23	11	91.27	27 46	15.27	7	69.24	34 37	16.77	48 3	68.61	40 46	14.48	14	34.40	41 45
14.38	51 5	0.97	10 34	16.77	20	92.79	28 08	16.43	26	72.50	36 52	16.09	4	68.72	48 59	15.04	46 47	55.22	56 51
15.04	10	1.70	11 15	16.77	23	93.37	25 01	15.33	28	72.88	38 12	15.75	44	75.92	49 54	14.99	56	56.79	57 58
11.83	14	2.49	11 00	16.77	40	96.47	24 20	14.06	34	74.04	34 27	11.83	54	77.60	42 41	14.15	57	56.94	58 12
16.77	23	4.15	11 58	15.95	58	99.57	25 45	14.24	38	74.80	36 57	16.77	49 5	79.52	43 52	16.77	57	57.04	54 44
16.77	24	4.37	10 56	14.62	51 4	0.64	20 10	1677	40	75.08	30 35	14.15	6	79.77	47 09	15.45	59	57.33	53 52
15.95	46	8.21	18 16	14.43	4	0.72	20 38	15.63	40	75.09	39 09	16.77	17	81.76	42 48	14.73	47 9	59.10	57 44
16.09	49	8.85	11 51	15.63	9	1.65	29 19	14.53	49 11	80.65	34 17	15.15	32	84.44	41 48	15.27	10	59.20	57 40
15.27	52 2	11.06	14 34	13.31	11	1.91	24 41	15.45	22	82.61	37 42	16.77	34	84.75	46 49	14.53	12	59.66	58 09
14.15	5	11.71	11 34	12.36	19	3.33	24 14	14.67	24	82.94	39 45	15.95	43	86.37	47 15	16.43?	13	59.73	58 06
12.92	7	12.05	16 24	16.77	24	4.29	22 56	16.29	25	83.01	36 35	16.58	56	88.68	41 19	13.60	17	60.55	53 47

25 prec. + 70 sec. — 8′ 9″.

Area 32.

+ 44°, + 45°

251—300				301—350				351—400				401—450				451—465			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.38	47 21	61.22	53 19	16.77	46 50	55.93	5 00	11.51	47 43	65.39	16 25	11.51	54 14	34.16	11 57	16.77	53 16	23.95	23 12
16.77	27	62.23	59 17	16.23	58	57.26	1 18	15.57	46	65.85	19 18	16.77	47 2	58.22	27 34	15.95	27	25.85	23 13
15.57	30	62.82	51 35	16.36	47 10	59.49	0 07	15.15	47	66.05	12 29	15.33	15	60.53	22 35	15.75	29	26.16	22 40
16.77	30	62.88	59 59	15.95	14	60.09	3 00	15.15	48 7	69.55	19 54	16.23	28	62.79	22 16	16.43	30	26.30	23 49
16.77	33	63.34	55 11	12.73	22	61.53	1 21	15.89	8	69.65	16 57	16.77	29	62.99	28 59	16.43	35	27.21	27 33
15.45	35	63.63	58 35	15.15	23	61.75	8 09	16.58	10	70.01	11 11	15.33	32	63.44	21 44	10.37	42	28.39	29 29
16.43	37	64.07	56 46	13.85	36	63.97	3 53	15.27	37	74.92	16 38	14.24	55	67.52	29 06	15.75	43	28.53	20 29
14.78	40	64.64	56 33	15.15	37	64.23	7 09	15.15	39	75.10	13 37	13.31	48 2	68.70	20 58	14.62	46	29.19	28 00
16.77	44	65.37	54 48	15.39	39	64.58	0 05	15.89	41	75.51	17 04	16.77	8	69.75	24 14	14.73	55	30.71	24 56
14.48	50	66.42	56 12	15.89	48	66.08	2 24	16.77	42	75.63	19 09	14.73	12	70.58	20 13	16.77	58	31.32	21 17
16.77	58	67.72	53 47	16.77	48 0	68.19	6 54	15.04	49	76.99	18 03	14.62	21	72.11	21 55	16.77	59	31.41	28 06
13.51	48 21	71.83	51 31	14.99	18	71.32	1 33	16.77	50	77.12	13 10	16.77	25	72.85	26 34	16.29?	54 1	31.83	21 08
15.95	35	74.30	55 41	14.62	19	71.64	8 33	14.99	51	77.31	18 06	14.29	28	73.34	27 09	11.21	6	32.71	20 38
15.63	42	75.56	58 09	15.45	36	74.50	6 43	15.95	52	77.41	16 45	15.95	31	73.77	22 09	10.80	14	34.03	22 32
16.09	52	77.27	56 57	15.27	38	74.97	1 33	16.29	55	78.07	18 13	16.77	31	73.77	20 46	16.77	17	34.58	25 41
15.95	49 25	83.14	50 46	12.73	41	75.52	1 57	16.77	49 12	80.96	14 39	16.43	43	75.97	21 16				
14.62	57	88.93	56 13	12.73	49 7	80.01	4 26	16.23	17	81.90	11 21	16.29	43	76.01	21 02				
16.77	50 15	92.09	59 12	14.78	7	80.05	7 12	14.29	25	83.29	11 40	14.62	46	76.50	24 17				
14.53	23	93.39	56 38	13.64	12	80.95	7 46	16.77	38	85.51	19 13	14.53	49 12	81.09	28 46				
12.92	31	94.80	55 47	16.77	27	83.59	1 27	15.89	50 10	91.19	18 20	15.89	18	82.15	25 46				
11.83	32	95.11	55 46	16.29	31	84.27	3 01	15.15	20	92.97	18 56	15.33	34	84.99	26 12				
9.35*	33	95.16	50 08	14.11	36	85.26	0 08	16.77	44	97.09	15 44	15.27	36	85.34	26 14				
16.77	36	95.72	59 11	15.95	39	85.79	7 57	16.23	46	97.45	15 24	15.04	38	85.60	22 47				
15.95	45	97.36	57 03	16.77	43	86.47	1 05	15.57	54	98.92	16 14	15.75	52	88.15	29 52				
16.09	46	97.43	51 09	14.99	50	87.67	0 54	16.77	51 2	0.41	13 58	14.29	53	88.22	21 44				
13.51	51	98.40	55 30	14.48	50 26	93.93	1 32	15.45	8	1.50	19 18	14.29	54	88.45	23 47				
15.95	51 3	0.62	59 04	16.77	29	94.61	4 32	11.07	9	1.59	13 09	16.43	50 13	91.79	21 45				
16.77	6	0.99	50 04	15.89	31	94.96	5 00	15.15	13	2.22	16 06	16.09	18	92.70	23 18				
15.75	10	1.77	58 34	14.78	42	96.91	4 08	11.83	14	2.41	14 52	15.45	19	92.86	21 18				
14.53	21	3.70	58 02	10.80	50	98.26	6 07	14.62	16	2.75	15 12	13.43	28	94.39	26 12				
14.38	22	3.87	53 18	12.73	51 4	0.78	5 50	14.02	19	3.38	13 39	13.64	30	94.73	25 25				
10.46	26	4.61	59 21	15.33	12	2.08	4 18	15.27	23	3.99	15 46	14.78	37	95.93	24 10				
13.72	30	5.22	53 04	15.27	29	5.13	6 16	16.43	42	7.44	16 48	16.29	48	97.94	22 44				
15.15	37	6.63	51 45	13.98	34	6.08	0 05	16.77	52 10	12.40	17 45	16.77	55	99.12	22 17				
14.38	38	6.65	50 51	16.77	49	8.62	1 36	16.43	17	13.56	16 16	15.95	51 18	3.23	24 54				
12.54	51	9.10	58 41	14.78	52 5	11.48	4 16	13.47	29	15.59	19 59	15.75	24	4.24	27 31				
16.23	52	9.13	55 50	16.09	19	13.90	2 11	16.77	39	17.39	19 18	14.48	27	4.74	29 30				
14.73	52 3	11.10	52 13	11.21	27	15.43	6 49	16.77	52	19.66	17 51	16.77	49	8.54	27 59				
14.48	14	13.09	54 20	16.77	44	18.33	2 04	16.77	57	20.66	15 40	16.23	52 1	10.68	27 51				
14.88	18	13.86	54 06	16.77	57	20.62	8 47	14.78	58	20.80	12 32	15.45	2	10.93	20 30				
14.88	22	14.48	58 24	16.43	53 23	25.22	8 51	16.58	53 0	21.07	15 18	15.33	4	11.25	28 30				
12.92	40	17.78	52 19	14.88	32	26.87	7 14	15.15	4	21.86	10 25	15.89	15	13.19	20 24				
16.77	52	19.83	56 01	11.83	44	29.03	6 03	14.99	10	22.88	10 18	15.57	20	13.99	20 53				
16.23	58	20.98	59 28	15.15	50	30.06	0 09	13.43	14	23.54	18 47	15.95	27	15.34	29 38				
15.89	53 1	21.49	52 33	15.15	51	30.14	7 55	16.58	19	24.54	14 54	16.49	34	16.50	20 02				
15.33	6	22.39	54 51	14.99	59	31.54	9 30	15.95	20	24.63	12 59	12.54	35	16.71	22 01				
15.95?	15	23.94	57 09	15.63	47 3	58.20	11 07	15.27	34	27.08	19 53	16.77	43	18.16	21 13				
12.54	20	24.75	55 06	16.09	9	59.42	12 56	16.58	54 4	32.37	12 18	12.92	53 50	19.26	29 34				
16.77	41	28.43	51 01	12.92	21	61.41	14 57	15.33	10	33.38	16 34	16.77	10	22.77	25 23				
16.77	44	28.94	53 51	16.58	31	63.19	13 15	16.29	10	33.49	19 28	16.23	16	23.80	27 00				

25 prec. + 69 sec. — 8′ 9″.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$ / $y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.78	46 24	61.45	34 28	14.06	53 26	36.71	34 20	12.19	51 11	12.68	43 27	15.77	49 24	93.56	56 56	15.04	48 30	84.17	4 49
14.78	33	63.14	32 04	16.11	34	38.12	34 16	10.70	16	13.41	46 46	15.09	32	95.02	59 46	11.34	32	84.51	5 19
14.98	41	64.56	34 21	15.43	35	38.24	39 01	15.04	42	18.19	40 47	12.54	39	96.20	50 59	15.14	49	87.42	5 09
15.77	45	65.36	38 34	15.04	46	40.22	36 58	11.08	46	18.77	40 41	13.84	44	97.21	52 48	16.11	51	87.78	8 54
16.11	48	65.83	33 25	15.31	48	40.63	34 33	13.03	50	19.52	44 20	15.57	47	97.79	56 45	15.31	52	87.94	8 46
11.24	52	66.54	37 08	14.53	46 24	61.59	41 33	15.31	55	20.41	42 57	15.92	50 7	1.32	59 32	15.92	53	88.14	0 55
14.88	56	67.21	35 33	14.48	33	63.27	43 54	15.04	52 12	23.37	49 09	15.04	22	3.97	53 48	15.43	49 6	90.54	5 03
15.04	47 3	68.47	39 31	13.63	34	63.47	46 01	16.11	15	23.92	46 17	15.43	29	5.10	51 07	15.04	7	90.62	1 23
15.04	15	70.65	37 48	14.88	40	64.49	49 52	12.72	18	24.49	43 44	14.98	38	6.72	56 39	15.57	9	90.96	7 56
15.92	28	72.92	38 00	13.42	44	65.28	43 48	14.78	26	25.89	46 59	14.06	40	7.04	56 07	15.57	38	96.11	7 41
12.91	29	73.10	32 53	14.62	49	66.16	47 01	15.77	29	26.41	46 38	15.26	47	8.29	57 06	12.02	40	96.56	5 57
12.19	46	76.04	30 19	15.63	52	66.55	47 19	14.38	31	26.72	40 32	14.29	52	9.23	54 01	16.11	42	96.75	8 50
14.62	49	76.75	38 37	14.62	58	67.74	45 42	16.11	32	27.06	45 11	15.92	51 2	10.91	59 37	11.68	51	98.49	6 39
16.11	55	77.78	36 07	12.54	47 2	68.33	46 12	16.11	38	28.09	48 18	15.31	7	11.87	51 24	14.98	50 1	0.17	8 10
15.57	56	77.96	31 18	15.63	17	71.15	46 30	15.04	42	28.75	46 03	15.63	11	12.58	53 11	15.31	11	2.03	9 06
15.31	57	78.01	31 28	13.84	20	71.62	47 01	15.14	43	28.90	43 44	15.31	24	14.84	57 11	14.29	14	2.52	8 11
13.22	48 36	85.04	32 53	16.11	21	71.78	49 35	8.03*	51	30.37	46 24	15.04	27	15.33	58 44	14.98	18	3.18	1 35
12.36	46	86.80	32 24	15.04	30	73.36	40 10	15.14	58	31.66	48 28	15.31	36	16.96	59 18	14.06	48	8.40	4 20
12.02	49 7	90.49	35 45	14.98	31	73.54	45 00	15.31	53 7	33.22	48 42	12.36	49	19.22	58 39	16.11	57	10.11	4 34
14.98?	18	92.43	31 09	16.11	49	76.73	42 21	16.11	14	34.48	46 08	15.14	51	19.59	56 24	14.06	51 16	13.33	3 09
14.29	18	92.47	30 49	14.93	50	76.86	49 38	13.22	22	35.91	48 00	16.11	58	20.88	58 03	14.53	18	13.78	8 45
12.91	30	94.72	30 33	15.31	51	77.09	45 07	11.85	29	37.12	46 31	15.92	52 11	23.11	57 41	15.04	24	14.76	0 34
14.88	33	95.22	33 17	15.63	58	78.27	44 22	15.50	31	37.43	49 56	15.63	12	23.38	59 32	12.19	32	16.20	6 09
15.77?	39	96.28	30 37	13.89	58	78.35	40 39	15.43	32	37.58	40 33	15.14	20	24.82	53 31	14.88	36	16.90	6 41
12.02	42	96.87	31 33	16.11	48 2	79.11	43 10	14.83	35	38.22	40 30	15.14	28	26.12	59 03	14.02	46	18.70	2 36
15.26	45	97.32	33 49	14.15	12	80.86	49 42	14.98	42	39.36	40 46	14.53	28	26.14	58 52	15.31	47	18.87	4 50
15.63?	50 4	0.74	38 49	11.21	16	81.51	41 34	14.62	46 24	61.72	53 49	15.77	50	30.17	50 46	14.62	48	19.04	0 43
16.11	19	3.30	36 27	14.48	41	85.94	42 55	11.40	24	61.83	57 01	14.53	57	31.29	59 04	12.19	53	19.89	2 45
13.38	23	4.13	36 46	15.31	41	85.96	41 23	15.31	31	63.02	53 37	14.62	57	31.32	51 33	15.57	52 10	23.00	4 25
15.26	36	6.49	31 35	15.31?	44	86.49	44 19	15.43	32	63.09	52 52	14.72	53 0	31.89	57 51	16.11	12	23.31	3 30
13.30	42	7.55	31 42	10.76	50	87.48	45 17	15.31	43	65.12	55 05	16.11	18	35.15	59 32	16.11	26	25.80	6 44
14.24	47	8.31	36 38	14.48	50	87.49	48 49	14.88	43	65.14	53 25	12.91	23	35.88	54 58	15.09	30	26.50	9 40
14.88	59	10.48	39 00	15.31	49 18	92.55	41 00	9.81	47	65.86	52 00	15.77	33	37.64	59 34	14.78	45	29.09	3 35
13.71	51 1	10.87	39 24	14.88	20	92.88	42 20	12.91	50	66.39	51 16	16.11	38	38.56	55 03	14.88	53	30.58	7 58
14.88	14	13.14	37 14	14.78	20	92.93	41 40	15.14	52	66.68	59 10	12.84	41	39.10	50 20	15.04	53 2	32.13	9 29
14.15	15	13.36	31 59	16.11	27	94.09	42 06	11.30	47 4	68.90	55 53	14.15	42	39.22	50 27	15.57	11	33.68	0 38
12.54	20	14.16	33 19	14.38	27	94.18	49 52	13.80	20	71.64	56 25	12.72	47	40.10	50 41	15.14	12	33.98	7 45
15.31	27	15.56	39 41	15.57	33	95.17	42 21	14.24	33	73.89	52 32	13.50	46 29	62.74	1 46	15.14	15	34.36	7 44
12.91	58	20.93	31 01	16.11	37	95.88	47 15	14.15	33	74.01	51 33	14.88	30	62.98	0 18	15.43?	16	34.61	2 58
15.92	52 1	21.58	37 23	15.57	47	97.74	40 41	12.26	48	76.55	50 00	13.63	37	64.22	7 57	14.72	18	34.90	1 23
15.92	34	27.35	34 44	15.31	49	98.04	41 25	14.53	54	77.68	56 34	14.72	59	68.01	4 14	12.36	26	36.45	7 26
14.24	35	27.58	35 46	14.06	50 5	0.93	49 30	15.63	48 3	79.28	55 41	15.43	47 5	69.07	1 24	16.11	28	36.67	7 12
14.06	38	28.14	35 12	14.78	22	3.87	40 06	15.43	11	80.68	50 24	15.26	12	70.29	3 47	15.77	29	36.93	7 48
14.29	45	29.40	30 22	12.72	23	4.16	48 54	16.11	15	81.33	58 32	15.57	14	70.68	9 30	14.43	29	36.96	0 21
13.10	47	29.69	30 53	13.93	39	6.84	40 18	15.92	37	85.36	58 28	11.19	23	72.24	2 38	15.14	33	37.59	1 32
15.31	53 5	32.89	30 39	14.53	44	7.75	40 47	14.48	38	85.45	55 07	15.14	24	72.38	6 30	14.88	35	37.95	2 03
14.53	6	33.08	38 45	13.22	48	8.57	41 00	14.02	43	86.33	53 10	14.24	35	74.43	4 03	15.31	43	39.18	8 29
15.26	9	33.63	35 37	16.11	54	9.60	46 04	15.43	58	89.00	58 18	14.88	52	77.37	3 17	14.53	45	39.74	8 02
15.57	11	33.97	31 28	15.92	51 5	11.56	48 34	14.06	49 1	89.48	58 31	15.14	48 27	83.59	9 32	12.54	46 54	67.25	18 30
15.14	23	36.10	34 43	14.88	8	12.13	46 09	12.02	7	90.66	52 58	13.59	28	83.74	1 36	15.14	47 18	71.44	16 58

25 prec. + 61 sec. — 7′ 25″.

Area 33.

251—300				301—350				351—400				401—450				451—478			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.31	47 34	74.34	13 50	14.24	46 44	65.68	23 30	12.91	53 24	35.80	28 42	15.04	52 34	27.00	38 41	14.78	50 30	5.32	44 42
10.84	48	76.68	10 16	15.14	56	67.67	20 46	16.11	32	37.23	23 45	14.62	47	29.22	38 19	13.71	41	7.14	45 40
15.26	48 5	79.78	10 06	14.98	47 5	69.36	28 43	15.04	32	37.27	26 20	15.31	49	29.52	30 59	14.53	44	7.63	42 49
14.24	11	80.82	11 33	15.63	11	70.36	23 26	15.43	42	38.93	22 40	15.31	56	30.79	37 35	16.11	47	8.12	47 06
15.26	17	81.91	10 39	14.53	36	74.73	23 49	14.98	52	40.71	29 02	14.62	56	30.84	31 07	16.11	49	8.56	42 35
14.29	34	84.95	18 08	14.53	55	78.02	29 36	15.04	53	40.94	20 11	15.57	53 1	31.74	35 17	16.11	51 0	10.50	46 07
15.14	38	85.60	16 35	15.92	57	78.49	29 50	16.11	46 20	61.52	37 33	16.11	16	34.35	32 47	15.14	4	11.18	43 41
15.26	40	85.91	18 49	15.92	48 17	81.96	20 05	14.72	21	61.71	36 49	14.15	17	34.50	35 25	15.26	44	18.18	49 27
14.53	55	88.50	19 34	15.43	19	82.26	27 00	15.77	34	63.96	37 40	16.11	18	34.64	37 40	15.57?	48	18.79	41 34
14.78	49 2	89.88	17 44	16.11	31	84.35	26 05	11.50	47	66.18	34 00	15.04	27	36.14	39 17	14.98	51	19.29	45 59
10.66	17	92.38	16 30	14.43	33	84.76	20 28	16.11	58	68.21	31 33	9.31	32	37.14	38 48	15.92	54	19.96	45 05
15.31	27	94.10	12 45	12.91	51	87.86	24 21	15.43	47 21	72.21	37 02	16.11	48	39.93	33 32	14.29	55	20.04	42 24
14.93	27	94.26	19 30	13.30	53	88.28	22 56	12.02	24	72.72	31 49	15.26	46 30	63.33	48 29	15.77	52 5	21.77	48 03
16.11	44	97.18	19 25	15.63	54	88.34	20 00	12.19	25	72.86	30 32	14.62	34	64.10	49 45	14.72	30	26.24	47 19
16.11	55	99.20	10 54	15.04	49 4	90.16	25 20	15.92	30	73.78	35 45	15.31	34	64.12	47 43	14.53	35	26.98	44 15
13.10	59	99.76	18 23	16.11	41	96.69	26 34	16.11	49	77.04	36 09	13.80	42	65.52	42 11	14.62	38	27.47	42 52
9.42	50 7	1.16	12 53	14.88	44	97.26	20 30	15.31	56	78.40	35 46	15.14	43	65.70	43 50	13.10	42	28.33	45 36
15.20	8	1.47	12 52	13.10	50	98.32	21 26	13.71	48 11	80.97	37 29	13.84	47 0	68.56	47 27	14.24	53 7	32.66	47 18
16.11	17	3.01	11 55	15.63	53	98.82	22 49	14.53	13	81.32	36 12	15.43	6	69.60	43 44	15.31	15	34.07	46 54
14.53	20	3.43	12 34	15.04	54	98.91	24 40	15.31	14	81.46	30 12	16.11	7	69.85	47 08	14.62	16	34.22	40 31
12.36	22	3.89	12 18	14.29	50 6	1.12	26 19	14.88	34	84.89	38 53	15.04	8	69.92	46 22	14.62	21	35.12	49 08
15.14	34	5.95	16 22	14.88	10	1.79	21 38	16.11	46	87.08	33 34	16.11	11	70.47	47 00	15.57	27	36.16	46 49
12.61	34	6.02	10 03	16.11	12	2.05	29 09	15.31	51	87.86	32 45	13.03	24	72.84	43 09	16.11	30	36.64	46 50
14.06	47	8.23	18 45	12.91	16	2.81	24 16	13.93	55	88.56	32 48	13.71	43	76.02	43 09	15.57	36	37.63	42 50
15.26	51 12	12.65	14 36	15.31	18	3.20	26 11	15.31?	59	89.27	39 58	14.24	54	77.99	45 26	12.91	42	38.66	47 41
14.62	13	12.77	13 59	16.11	48	8.40	22 59	16.11	49 10	91.21	38 27	15.14	48 1	79.27	40 39	14.98	48	39.76	47 37
15.43	16	13.37	13 03	16.11	51 4	11.32	29 43	12.91	16	92.35	35 36	15.77	2	79.42	44 00	14.02	48	39.83	43 25
15.26	20	14.09	11 23	15.31	7	11.79	27 08	15.43	17	92.53	35 06	12.36	10	80.86	40 14	15.14	49	39.98	42 25
15.43	21	14.34	18 00	15.31	12	12.69	27 13	12.19	19	92.76	33 03	14.62	11	80.99	44 38				
12.72	31	16.02	13 45	14.72	15	13.14	28 12	16.11	26	94.02	39 30	11.85	15	81.67	41 21				
12.02	37	17.09	10 34	15 26	22	14.36	28 59	16.11	31	94.97	33 55	14.62	18	82.17	48 31				
15.31	46	18.58	16 15	15.14	25	14.99	25 48	15.57	32	95.10	32 47	14.62	35	85.10	45 43				
13.03	52	19.65	13 40	16.11	30	15.76	24 20	15.14	50	98.26	31 54	15.04	38	85.73	48 44				
15.77	52 6	22.10	19 04	15.37	45	18.46	29 27	15.14	50 7	1.16	34 58	14.48	46	87.06	44 17				
16.11	7	22.35	17 39	15.31	52 7	22.31	22 56	16.11	17	3.04	39 17	15.92	59	89.34	49 52				
15.14	24	25.35	19 24	14.62	7	22.36	29 29	10.90	20	3.59	39 55	16.11	49 26	93.99	48 22				
16.11	38	27.89	13 04	12.84	15	23.74	29 41	14.15	22	3.88	38 19	11.85	34	95.50	44 18				
15.14	52	30.32	18 00	13.71	16	23.78	24 28	14.88	26	4.59	34 33	12.02	50	98.26	46 33				
15.14?	56	30.95	11 56	15.92	21	24.74	27 44	15.26	27	4.75	36 11	15.31	51	98.38	46 54				
13.10	53 1	31.78	17 25	15.26	21	24.79	24 56	14.62	29	5.00	35 19	15.14	50 2	0.41	47 30				
15.63	7	32.96	19 00	15.92	48	29.55	20 11	14.98	40	7.06	35 36	15.31	3	0.52	41 34				
13.93	8	33.10	17 53	16.11	49	29.64	28 29	16.11	48	8.49	38 16	15.31	4	0.65	48 04				
14.53	13	33.96	14 38	12.02	51	30.07	24 59	15.14	52	9.18	36 01	14.62	6	1.14	44 43				
15.26	16	34.51	16 42	14.48	53 5	32.40	27 11	15.04	51 6	11.50	30 34	14.72	7	1.34	45 00				
12.02	34	37.75	18 57	15.26	6	32.64	27 51	15.04	11	12.50	39 05	15.63	9	1.71	46 31				
15.31	35	37.83	18 50	13.84	8	32.96	20 32	14.38	39	17.29	38 33	15.77	11	1.99	48 46				
15.92	37	38.15	16 01	12.54	16	34.45	21 42	15.92	40	17.55	37 16	11.68	15	2.62	49 11				
15.31	49	40.22	13 58	14.98	19	34.96	23 01	15.57	59	20.91	38 53	14.38	27	4.73	44 42				
16.11	53	40.93	19 09	15.31	22	35.47	25 31	14.88	52 6	22.11	36 52	15.92	29	5.01	49 27				
14.53	46 38	64.54	24 57	15.14	23	35.53	23 24	14.98	24	25.17	37 56	16.11	30	5.23	40 44				

25 prec. + 61 sec. — 7′ 25″.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
16.00	44 14	59.61	21 35	12.72	50 10	23.18	22 44	15.14	47 24	93.66	33 11	15.04	45 7	69.36	49 38	15.14	49 40	17.66	43 07
14.54	22	61.02	27 33	15.81?	11	23.40	21 47	14.15	26	93.96	33 21	15.66	16	70.93	41 09	12.95	40	17.68	43 56
14.25	23	61.28	27 24	14.89	18	24.58	27 01	15.66?	35	95.56	39 30	12.86	28	73.09	44 17	14.15	46	18.80	42 02
15.66	38	63.87	22 28	14.99	22	25.44	23 49	13.18	35	95.62	39 31	14.74	35	74.19	43 24	14.44	50 14	23.84	40 06
15.14	50	66.00	21 39	14.05	25	25.82	22 20	15.81	44	97.20	39 26	15.30	37	74.65	42 41	16.00	15	23.90	43 20
13.32	52	66.34	20 00	11.51	43	29.07	20 23	12.29	46	97.58	30 53	16.00	39	74.95	48 32	15.14	47	29.68	47 08
16.00	54	66.79	27 37	15.50	45	29.40	27 50	13.90	50	98.22	38 19	14.74	44	75.84	46 27	12.50	50	30.22	49 53
14.74	45 6	68.97	21 20	14.39	46	29.63	28 16	15.30	48 10	1.72	39 15	16.00	57	78.22	41 47	15.24	53	30.76	40 06
14.54	13	70.27	28 43	12.72	47	29.85	24 06	14.74	13	2.31	37 47	12.50	58	78.26	45 04	16.00?	54	30.96	46 39
14.89	20	71.39	29 41	16.00	51	30.50	24 39	16.00	15	2.72	39 24	11.89	46 5	79.53	47 27	15.66?	58	31.56	46 01
14.54	27	72.66	25 20	14.30	54	31.03	25 00	14.54	21	3.80	38 47	13.42	5	79.64	44 49	11.70	51 1	32.21	45 40
14.89	28	72.77	20 32	15.66	55	31.33	29 18	12.09	24	4.25	31 28	16.00	9	80.29	46 39	12.50	10	33.75	49 57
15.24	46	76.10	28 26	13.66	59	31.88	22 43	15.30	25	4.41	37 18	16.00	24	82.88	47 58	14.00	12	34.14	47 20
15.40	56	77.91	24 49	11.70	51 16	35.06	22 06	13.28	29	5.17	37 34	14.35	26	83.24	40 23	15.14	24	36.26	40 54
16.00	46 15	81.27	23 50	16.00	18	35.35	25 45	9.26	37	6.53	38 07	15.14	28	83.64	46 44	15.14	44 7	58.63	59 22
14.05	22	82.54	24 35	14.05	25	36.66	24 00	15.40	44	7.75	32 17	16.00	42	86.09	44 01	15.81	11	59.50	50 19
13.28	26	83.21	20 35	12.63	44 5	58.24	30 08	14.25	46	8.16	32 20	12.72	47	86.95	41 58	14.79	16	60.34	52 00
12.95	28	83.55	22 58	15.14	19	60.60	34 25	13.18	50	8.97	31 12	14.99	51	87.83	47 57	15.66	33	63.40	56 33
13.42	42	86.04	22 37	15.30	27	62.04	37 21	15.50	51	9.09	32 00	15.30	47 2	89.64	48 31	12.50	41	64.72	51 03
15.81	52	87.94	29 48	16.00	38	63.96	34 13	14.25	59	10.42	32 38	15.56	4	90.01	40 38	13.90	50	66.34	57 34
15.66	55	88.34	29 25	15.30	43	64.94	36 51	12.72	49 1	10.82	37 00	16.00	16	92.17	44 50	12.72	57	67.56	52 42
14.64	47 0	89.25	27 18	9.36	43	64.98	37 59	12.50	7	11.86	32 29	15.81	25	93.82	44 47	16.00	58	67.82	50 53
15.81	14	91.72	23 17	16.00	52	66.50	30 08	16.00	8	12.10	38 21	15.04	27	94.17	43 59	15.14	45 6	69.24	51 35
11.33	19	92.63	26 57	12.86	55	67.10	34 58	16.00	13	13.00	38 32	13.37	32	94.96	40 37	16.00	10	69.87	51 52
14.79	36	95.70	23 25	16.00	55	67.13	34 23	16.00	15	13.36	39 10	15.40	36	95.81	44 20	12.72	12	70.19	54 53
15.56	41	96.61	25 19	15.14	45 10	69.74	34 38	11.33	21	14.49	35 46	15.81	42	96.77	49 34	16.00	21	71.82	50 43
14.79	56	99.20	20 48	14.99	12	70.06	31 05	16.00	25	15.18	36 43	16.00	43	96.94	49 49	11.15	23	72.22	50 19
15.81	48 4	0.77	25 21	15.04	15	70.62	39 57	12.72	26	15.33	39 02	14.79	43	97.06	42 43	15.30	27	72.88	55 05
16.00	16	2.90	24 35	16.00	18	71.08	36 28	14.54	28	15.74	33 24	16.00	48	97.88	47 37	15.24	42	75.63	53 11
16.00	17	3.09	25 10	15.66	23	72.07	35 35	14.79	29	15.80	36 42	15.04	52	98.49	41 41	15.14	51	77.25	57 55
14.25	18	3.16	23 46	15.14	29	73.08	37 42	15.40	33	16.59	36 58	14.64	53	98.76	40 34	16.00	53	77.57	53 23
14.15	18	3.19	28 37	14.49	32	73.63	34 21	16.00	37	17.29	38 39	15.14	54	98.86	47 10	15.24	46 9	80.40	54 18
14.54	25	4.45	24 40	14.89	34	74.05	35 46	15.40	38	17.51	34 11	15.09	55	99.12	40 15	13.18	13	81.12	54 05
16.00	28	4.95	21 49	12.29	37	74.51	33 11	14.74	44	18.46	30 55	12.50	57	99.44	47 27	14.54	17	81.85	54 09
15.30	30	5.38	22 41	15.14	46	76.14	39 09	15.66	50 5	22.33	35 49	15.14	48 1	0.11	42 15	15.40	26	83.27	53 58
15.81	33	5.86	27 18	14.64	46 8	79.97	32 06	15.56	5	22.35	36 48	16.00	23	4.02	44 17	14.49	37	85.33	53 35
13.18	44	7.93	23 12	13.95	16	81.50	30 15	16.00	6	22.44	37 01	14.64	33	5.95	48 10	15.04	38	85.56	58 34
14.64	49 3	11.20	29 17	15.81	25	83.06	34 05	14.30	6	22.45	34 10	14.49	36	6.38	43 09	15.56	48	87.23	52 41
13.76	5	11.54	23 12	14.25	36	85.06	37 22	16.00	7	22.56	35 40	14.64	46	8.08	43 38	15.81	51	87.80	58 27
14.74	5	11.55	25 01	14.89	42	86.18	38 31	16.00	13	23.70	31 42	16.00	47	8.31	46 57	15.56	47 4	90.02	58 06
15.04	14	13.19	20 09	14.49	44	86.50	37 00	15.66	19	24.69	38 03	13.18	55	9.76	41 45	14.89	9	90.96	57 45
14.74	14	13.29	29 55	16.00	52	87.89	36 27	11.51	36	27.80	39 50	14.84	58	10.36	40 02	10.98	14	91.89	51 05
14.25	16	13.66	28 04	15.66	53	88.12	30 51	15.81	38	28.20	31 52	14.79	59	10.56	46 52	13.56	22	93.26	57 20
14.64	18	13.84	24 20	16.00	59	89.14	35 02	14.69	51 9	33.66	30 47	14.64	49 20	14.21	45 11	14.54	37	96.00	57 44
15.14	37	17.37	29 48	16.00	47 12	91.44	31 34	15.56	11	34.09	39 22	14.30	22	14.63	43 14	15.40	50	98.18	52 17
16.00	46	18.96	22 01	15.81	18	92.46	36 24	15.14?	25	36.52	39 32	14.64	28	15.70	44 51	14.64	56	99.30	52 53
15.14	47	19.08	20 17	12.72	18	92.52	37 28	16.00	44 16	60.18	41 55	12.95	31	16.23	49 04	14.25	48 0	99.94	57 45
15.14	50	19.58	21 47	15.24	20	92.84	36 17	14.25	19	60.74	47 58	16.00	34	16.76	43 13	16.00	3	0.45	56 45
13.28	50 4	22.07	29 14	16.00	22	93.26	35 57	14.64	24	61.59	47 01	14.05	35	16.83	48 48	14.79	10	1.69	54 24
14.39	10	23.16	29 52	14.64	24	93.55	38 51	15.81	34	63.37	45 06	14.30	38	17.42	48 23	14.54	14	2.50	55 43

25 prec. + 55 sec. — 6' 13".

251—300				301—350				351—400				401—450				451—500			
Int. magn.	a	x	$\frac{y+60'}{y+0'}$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
16.00	48 23	4.15	57 46	15.40	45 57	78.25	8 20	13.32	50 21	24.97	5 57	15.04	49 15	13.15	12 11	13.81	45 30	73.72	28 23
16.00	27	4.71	51 30	15.30	46 4	79.61	8 53	14.74	23	25.22	8 11	13.52	16	13.43	18 12	15.24	52	77.56	24 57
13.90	33	5.78	52 10	14.99	7	80.08	9 05	13.09	51 0	31.80	0 51	15.14	20	14.11	17 19	14.25	46 2	79.36	20 37
13.52	33	5.79	58 31	12.95	10	80.64	7 21	14.25	1	31.93	2 52	12.72	22	14.43	11 16	14.89	18	82.04	20 02
15.04	49 8	12.08	53 56	14.25	14	81.34	8 05	14.74	1	31.97	5 07	15.14	23	14.66	17 21	16.00	21	82.70	25 41
14.94	19	14.00	50 40	16.00	19	82.18	1 19	16.00	14	34.23	8 42	15.30	24	14.83	12 07	16.00	23	83.06	27 24
11.15	25	14.98	55 12	14.64	20	82.46	9 42	16.00	20	35.34	8 13	16.00	27	15.38	12 02	16.00	38	85.58	23 23
14.05	52	19.81	52 46	12.29	21	82.49	6 18	14.30	21	35.44	5 15	15.81	34	16.52	11 21	14.74	50	87.72	24 49
16.00	59	21.07	58 33	14.89	28	83.70	6 47	16.00	22	35.60	8 55	12.29	45	18.48	13 20	12.95	53	88.22	24 25
15.45	50 4	21.96	50 20	14.00	28	83.80	0 03	15.56	30	37.11	1 19	14.49	51	19.56	18 08	16.00	54	88.50	24 47
15.81	20	24.75	53 12	14.49	40	85.81	5 49	14.54	34	37.86	4 38	13.81	57	20.62	12 22	15.14	57	88.98	21 08
12.90	21	25.02	50 34	12.63	51	87.87	2 50	13.66	44 16	60.55	15 38	16.00	58	20.81	13 39	14.64	47 1	89.63	25 09
14.64	26	25.81	53 11	16.00	52	87.97	3 07	13.66	27	62.49	15 11	14.00	58	20.83	12 53	13.09	14	92.02	29 40
15.30	30	26.58	57 13	14.74	52	88.01	0 17	14.39	30	62.94	10 22	15.09	50 4	21.74	10 24	16.00?	15	92.15	27 02
16.00	37	27.76	52 14	15.56	54	88.39	9 33	13.18	34	63.76	19 54	14.79	8	22.59	18 06	16.00	16	92.24	27 13
14.64	40	28.38	57 08	13.90	56	88.66	8 42	15.04	35	63.89	13 31	14.79	15	23.84	13 42	16.00	33	95.26	29 13
14.74	41	28.47	56 28	12.50	47 10	91.09	0 42	15.45	36	64.13	19 59	15.81	26	25.69	13 20	8.02*	51	98.44	20 29
15.66	56	31.12	56 45	16.00	10	91.22	7 28	14.79	42	65.12	18 18	15.66	28	26.08	15 27	14.15	48 2	0.27	23 37
12.09	51 3	32.42	50 31	14.54	15	92.04	8 27	15.81	51	66.71	13 40	15.56	30	26.35	17 20	16.00	3	0.54	29 14
15.24	4	32.61	51 16	15.04	22	93.32	0 02	14.74	55	67.39	11 15	15.72	39	28.02	10 06	14.25	6	1.10	21 30
13.32	8	33.33	53 25	15.04	25	93.89	8 53	15.50	45 11	70.21	14 16	15.66	42	28.46	13 27	15.56	22	3.94	28 02
14.30	10	33.72	56 58	14.39	35	95.57	1 06	14.25	14	70.80	17 11	16.00	44	28.86	13 58	15.24	23	4.03	25 51
16.00	10	33.72	55 48	12.50	38	96.17	3 28	14.25	15	70.88	19 36	13.81	45	29.13	17 24	15.14	26	4.54	21 35
14.64	12	33.96	53 28	8.37*	48	97.80	1 13	14.49	25	72.68	16 17	15.30	51	30.02	14 49	15.30	27	4.68	25 13
15.81	12	34.07	52 18	14.44	58	99.72	0 34	15.40	28	73.26	17 11	13.76	54	30.56	11 08	16.00	54	9.49	21 51
16.00	18	35.04	59 42	16.00	48 20	3.48	0 04	14.39	31	73.72	12 50	14.79	58	31.36	13 35	15.30	58	10.12	21 18
15.72	18	35.04	59 56	15.81	25	4.42	3 11	10.74	38	74.94	11 42	16.00	59	31.47	18 56	15.66	49 2	10.80	21 18
12.63	28	36.76	50 32	16.00	32	5.63	5 43	15.24	38	74.96	13 03	14.89	51 3	32.28	11 04	15.14	5	11.48	29 32
12.29	44 3	58.24	2 10	15.14	32	5.72	8 11	12.50	39	75.25	13 18	12.29	8	33.16	11 08	15.56	22	14.43	25 17
15.81	7	58.80	9 20	14.54	33	5.88	0 08	8.85	46 1	78.99	17 48	16.00	12	33.74	15 22	15.66	35	16.61	21 47
14.15	10	59.41	3 18	10.61	40	7.05	1 17	16.00	4	79.65	13 17	15.04	16	34.48	14 03	14.89	40	17.57	26 30
12.38	13	59.86	9 58	10.81	43	7.50	1 55	16.00	6	79.85	12 48	14.64	19	34.98	16 52	13.52	49	19.16	28 32
16.00	16	60.54	8 36	15.24	55	9.73	5 12	15.50	12	81.04	11 50	13.52	21	35.45	14 11	16.00	51	19.46	21 21
12.95	17	60.67	3 10	15.40	49 8	12.07	0 14	16.00	35	85.10	11 23	15.24	24	35.83	19 03	16.00	52	19.72	21 48
16.00	44	65.31	2 21	13.81	10	12.43	1 39	12.81	51	87.78	10 02	16.00	28	36.61	18 26	13.32	50 12	23.23	20 44
15.14	44	65.41	3 50	15.24?	15	13.26	7 10	14.89	47 0	89.37	13 09	14.05	29	36.72	14 19	15.56	13	23.29	29 33
16.00	50	66.41	2 34	15.40	20	14.20	6 53	14.15	13	91.69	15 13	15.56	44 12	60.04	25 35	14.00	17	24.03	24 19
15.81	54	67.10	4 08	15.30	28	15.50	0 06	15.56	27	94.21	17 00	16.00	12	60.07	20 22	14.25	18	24.27	25 19
16.00	55	67.31	9 47	14.39	29	15.78	5 35	15.81	39	96.23	11 39	13.28	15	60.58	22 43	16.00	27	25.87	29 11
15.56	45 2	68.52	6 28	14.54	35	16.78	3 41	16.00	40	96.43	14 47	15.81	17	60.83	24 22	13.52	34	27.06	24 50
13.66	3	68.75	2 00	16.00	35	16.79	7 23	15.04	48 9	1.59	10 24	12.95	21	61.55	24 12	15.14	38	27.78	27 33
15.30?	4	68.99	8 13	16.00	49	19.17	6 31	13.95	27	4.76	19 44	11.89	29	63.05	24 01	16.00	40	28.09	29 16
15.30	9	69.85	6 48	14.54	52	19.74	0 26	14.15	33	5.82	15 21	14.64	30	63.18	25 29	15.30	40	28.14	25 46
14.54	10	70.02	7 43	14.05	50 4	21.90	7 52	15.04	35	6.24	11 57	15.40	41	65.12	29 08	14.30	51 7	32.89	28 05
11.15	16	71.04	3 12	16.00	5	22.11	5 23	14.64	37	6.44	17 00	12.09	42	65.32	24 01	12.09	10	33.34	20 02
13.47	19	71.49	0 08	14.49	7	22.47	4 04	15.24	39	6.91	19 11	15.66	45 2	68.70	25 04	14.64	17	34.52	26 32
14.15	28	73.21	5 43	14.69	12	23.28	9 34	14.74	57	9.97	16 04	15.04	8	69.88	22 48	13.09	19	34.93	24 15
14.20	30	73.54	0 20	14.64	13	23.46	3 46	14.00	59	10.44	12 24	14.15	8	69.88	22 30	15.04	28	36.42	29 46
15.50?	39	75.19	3 39	14.64	18	24.37	1 24	15.81	49 1	10.70	15 01	15.18	12	70.52	24 35	15.04	44 28	62.98	35 03
16.00	54	77.84	7 27	16.00	21	24.90	8 46	14.30	6	11.66	17 28	15.14	18	71.65	24 26	11.51	42	65.36	33 58

25 prec. + 54 sec. — 6' 12".

14^{h} Area 34. $+ 45°$

501—520				521—540				541—560				561—570			
Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.54	44 42	65.39	35 31	12.29	46 37	85.44	39 10	14.74	49 0	10.46	30 23	15.56	51 12	33.57	37 32
15.24	50	66.79	34 15	14.00	49	87.64	35 00	16.00	3	11.07	39 18	15.50	13	33.77	37 54
15.66	59	68.36	37 11	14.15	50	87.76	33 44	16.00	7	11.75	36 58	14.74	16	34.26	33 22
10.98	45 4	69.28	38 09	14.99	50	87.83	38 04	16.00	16	13.34	32 28	13.04	17	34.49	36 20
14.64	4	69.28	33 15	10.12	57	88.90	36 21	16.00	24	14.63	31 30	16.00	19	34.85	32 50
13.76	18	71.62	31 29	14.49	57	88.95	37 07	13.81	25	14.89	34 34	16.00	20	35.02	37 40
16.00	20	72.00	38 52	12.29	47 1	89.70	38 42	15.30	29	15.62	37 01	13.56	21	35.24	37 25
15.40	23	72.60	37 11	13.76	3	90.00	30 20	15.24	31	15.95	32 56	15.24	22	35.30	31 36
14.74	25	72.79	30 04	16.00	6	90.48	34 30	13.76	32	16.09	38 01	14.30	26	36.10	36 25
14.74	30	73.80	36 25	12.50	17	92.51	32 08	14.49	53	19.69	39 39	15.24	35	37.66	35 07
16.00	32	74.14	32 39	14.64	34	95.40	37 31	15.50	54	19.92	35 46				
15.14?	34	74.45	39 08	16.00	48 10	1.67	38 18	14.25	50 5	21.84	30 50				
14.05	37	74.93	34 04	9.61	10	1.73	34 53	10.98	11	22.93	33 18				
12.50	39	75.28	30 50	15.14	36	6.28	38 37	15.40	21	24.69	35 46				
15.66	49	77.13	34 39	16.00	37	6.55	39 48	16.00	27	25.65	31 53				
15.14	46 1	79.15	38 29	12.50	40	6.97	31 05	15.30	34	26.96	30 02				
15.14	8	80.39	30 56	13.81	40	7.08	31 39	15.56	48	29.43	35 34				
11.51	23	83.00	33 29	13.18	42	7.33	33 19	16.00	53	30.21	31 55				
15.04	27	83.74	36 25	16.00	50	8.79	37 49	11.89	57	30.99	32 20				
15.24	33	84.76	31 14	14.15	59	10.29	30 27	13.81	51 11	33.49	32 26				

25 prec. + 54 sec. — 6′ 12″.

15^{h} Area 35. Centre for 1900: $15^{\mathrm{h}}\ 49^{\mathrm{m}} + 44°\ 50'$. $+ 44°$

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.86	45 49	65.77	18 23	15.86	47 49	87.27	18 51	15.37	50 1	10.92	11 03	15.86	52 45	40.32	19 24	15.67	47 28	83.52	25 29
14.66	50	66.02	17 49	15.86	52	87.80	12 55	15.86	13	13.09	17 07	14.48	46	40.56	16 49	15.27	39	85.60	26 37
15.03	50	66.07	15 22	15.86	54	88.18	14 23	15.42	33	16.66	15 37	15.86	48	40.89	18 23	15.86	48 5	90.16	23 13
13.92	53	66.57	13 06	14.89	55	88.43	10 28	14.80	44	18.58	12 33	12.11	56	42.23	12 59	15.03	12	91.42	28 40
14.80	54	66.62	13 11	15.86	56	88.49	14 24	14.57	47	19.22	18 57	11.20	45 49	65.89	28 36	15.86	22	93.24	23 02
15.52	46 3	68.35	16 13	14.48	48 0	89.21	12 34	15.67	51 3	21.97	14 55	14.57	54	66.72	25 37	14.48	26	93.97	27 51
13.29	4	68.42	11 29	14.94	0	89.34	16 08	15.86	5	22.34	13 04	14.44	57	67.37	29 10	14.53	30	94.66	20 14
13.08	4	68.54	18 40	15.18	15	91.89	12 16	15.67	5	22.38	19 13	15.52	59	67.72	20 14	14.89	34	95.41	21 41
13.42	10	69.61	18 51	14.66	20	92.85	19 42	15.86	22	25.38	14 21	15.86	46 7	69.11	24 36	11.91	43	97.05	22 06
14.13	19	71.11	11 53	15.67	28	94.27	17 20	15.86	26	26.18	13 44	15.03	15	70.59	21 52	15.86	45	97.25	28 06
13.79	22	71.77	17 18	14.66	35	95.45	17 09	15.86	28	26.57	12 46	13.21	23	71.95	22 31	14.89	52	98.50	26 53
11.72	32	73.56	12 41	14.05	49	98.00	18 10	14.94	29	26.76	13 24	14.13	23	71.99	25 55	12.88	57	99.50	22 43
14.89	33	73.71	15 38	14.44	49 10	1.75	16 54	15.37	50	30.52	17 08	14.05	43	75.56	21 04	15.86	49 2	0.40	29 41
15.52	47 0	78.45	10 48	15.18	13	2.26	15 14	14.44	52 3	32.69	13 24	15.42	47	76.34	28 24	15.52	12	2.10	26 40
15.18	13	80.88	16 19	13.50	21	3.70	14 30	15.86	8	33.58	14 50	14.66	53	77.37	25 48	14.94	28	5.01	22 31
15.03	17	81.48	12 45	15.86	25	4.49	13 03	10.62	16	35.10	15 35	14.48	47 7	79.82	21 33	12.88	32	5.66	29 48
13.58	17	81.55	11 25	14.89	31	5.50	10 08	15.52	33	38.22	19 16	14.71	9	80.15	26 06	15.18	33	5.82	23 58
14.71	18	81.68	14 29	15.27	41	7.31	17 44	15.86	38	38.96	15 37	15.67	12	80.70	24 34	13.71	33	5.93	24 00
15.67	40	85.70	18 45	15.86	46	8.16	15 46	12.68	41	39.66	13 28	11.33	21	82.25	28 04	15.86	36	6.43	28 54
14.89	43	86.28	19 18	13.29	52	9.43	19 03	15.67	43	39.86	16 32	14.57	27	83.39	24 19	15.86	38	6.75	25 49

25 prec. + 49 sec. — 4′ 32″.

15^h

Area 35.

$+ 44^\circ$

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50$	Int. magn.	α	x	$y+50'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.86	49 40	7.12	27 06	15.52	47 6	79.71	38 24	13.08	50 53	20.17	36 23	14.80	47 15	81.28	46 15	13.63	52 13	34.21	48 13
14.57	48	8.61	28 07	15.13	7	79.90	39 44	11.33	55	20.44	31 13	15.86	18	81.83	45 18	12.88	17	34.99	48 47
15.86	49	8.76	24 02	15.86	9	80.22	37 05	15.86	55	20.55	32 38	14.89	31	84.20	42 38	14.13	32	37.60	41 11
15.86	50 1	10.82	28 47	15.86	11	80.52	38 22	14.48	51 0	21.36	36 26	14.57	39	85.68	44 12	15.52	36	38.33	45 12
15.86	5	11.60	26 26	13.08	11	80.57	32 33	13.00	0	21.45	37 56	15.86	45	86.73	46 47	14.66	39	38.82	47 58
14.48	7	12.00	22 14	12.49	14	81.07	32 36	15.86	2	21.80	37 24	15.86	55	88.49	46 03	15.18	53 11	44.55	45 20
14.57	8	12.11	22 33	15.37	26	83.30	36 00	15.03	20	24.86	32 43	13.21	48 8	90.74	49 18	15.67	12	44.67	42 23
15.42	14	13.25	22 46	14.00	38	85.42	36 16	15.42	21	25.14	37 17	14.26	13	91.67	45 43	15.67	12	44.70	41 55
14.66	17	13.80	26 59	14.80	39	85.52	38 42	13.84	25	25.80	30 34	14.57	27	94.07	44 20	14.26	45 48	65.94	52 15
15.67	19	14.12	27 55	15.13	40	85.73	38 33	12.49	26	26.06	31 27	15.86	41	96.55	42 15	15.67	46 9	69.71	51 15
13.71	30	16.00	24 02	15.52	41	85.95	39 05	14.71	38	28.20	33 19	12.88	48	97.90	42 51	15.67	9	69.73	57 31
15.86	41	18.01	26 38	13.29	59	89.16	34 54	14.00	41	28.72	32 57	12.49	49	98.05	43 51	12.88	17	71.14	59 21
15.86	41	18.05	26 59	10.56	48 2	89.74	35 45	15.86	42	28.79	37 02	13.42	49	98.10	47 52	15.47	18	71.40	50 13
11.91	51	19.75	28 32	15.86	10	91.10	35 42	15.86	50	30.26	39 07	13.84	57	99.49	46 22	13.71	20	71.59	52 21
14.71	56	20.79	23 18	15.18	13	91.55	36 15	15.13	58	31.71	30 49	15.86	58	99.64	46 47	14.35	23	72.13	55 59
14.94	51 4	22.19	25 21	15.86	19	92.66	39 28	13.29	52 0	31.98	35 39	13.08	49 8	1.42	48 14	9.90	25	72.54	53 41
15.18	7	22.72	23 32	14.89	30	94.72	32 11	14.80	2	32.47	33 14	15.86	8	1.48	43 52	15.13	38	74.95	59 19
14.89	11	23.31	22 46	14.26	35	95.47	31 59	15.86	7	33.23	33 56	15.18	16	2.79	47 12	11.72	46	76.19	51 21
14.94	16	24.35	24 20	15.67	35	95.48	35 52	14.66	9	33.60	38 21	14.89	17	2.97	42 50	15.67	51	77.20	54 44
15.86	40	28.51	26 09	12.88	56	99.24	36 20	15.86	23	36.09	34 18	13.50	26	4.53	46 22	15.86	55	77.83	58 09
11.14	43	29.18	21 04	13.58	56	99.34	34 59	15.86	24	36.24	35 57	14.22	26	4.69	48 07	15.86	47 1	78.99	55 39
15.18	48	30.00	27 14	10.32	58	99.58	30 33	14.89	25	36.50	35 21	14.80	28	4.92	40 29	14.94	4	79.47	53 32
12.88	59	31.93	27 31	9.30	58	99.67	37 09	13.84	26	36.68	39 22	9.63	29	5.09	49 10	14.57	7	79.93	54 40
15.86	52 0	32.17	21 32	15.86	49 4	0.74	33 47	15.86	27	36.81	33 17	13.84	29	5.17	44 31	15.86	13	81.01	53 02
14.57	3	32.61	29 31	15.67	7	1.21	30 50	9.87	31	37.58	31 28	15.86	30	5.26	40 26	14.57	16	81.53	59 29
15.86	4	32.94	25 58	13.50	9	1.54	38 12	14.66	32	37.69	38 14	15.86	31	5.44	44 13	15.67	23	82.81	53 32
14.94	7	33.37	28 42	14.98	13	2.26	30 00	14.44	34	38.17	32 18	15.52	41	7.26	47 06	15.86	24	82.98	50 08
12.88	11	34.08	24 46	12.88	13	2.31	32 01	15.67	37	38.56	39 44	13.58	46	8.21	45 09	15.86	25	83.24	58 49
12.88	16	35.02	22 08	13.84	27	4.85	31 11	15.86	41	39.40	35 25	12.57	56	10.00	40 34	15.18	30	84.09	56 50
14.13	16	35.05	28 10	15.86	36	6.42	36 02	15.86	42	39.61	33 21	13.17	59	10.55	43 15	13.08	31	84.18	57 00
13.92	29	37.35	29 16	15.67	37	6.60	35 33	14.71	44	39.82	37 04	15.52	50 25	15.10	49 16	14.94	35	84.89	56 17
15.86	38	38.97	22 52	15.86	42	7.43	32 30	15.13	55	41.81	31 44	15.52	28	15.64	42 40	13.29	36	85.15	50 05
15.86	41	39.51	27 49	15.27	45	7.94	37 26	15.86	53 2	43.18	34 48	13.08	30	15.97	47 22	14.80	39	85.71	54 16
15.86	43	39.79	28 04	15.86	46	8.18	39 10	14.13	5	43.60	34 46	13.92	40	17.75	40 38	14.66	44	86.54	52 13
12.11	53	41.67	29 38	12.49	46	8.19	33 50	15.86	45 54	66.94	42 33	13.63	44	18.53	44 27	14.57	48 3	89.89	54 20
15.67	57	42.23	22 04	15.86	51	9.09	36 28	12.88	55	67.20	46 20	15.03	45	18.61	45 14	11.91	5	90.34	57 34
13.50	53 3	43.44	27 41	15.42	50 7	11.90	32 22	14.94	46 7	69.28	48 51	12.68	46	18.87	48 40	15.86	21	93.07	53 14
15.52	11	44.76	20 35	15.42	10	12.43	30 53	15.13	7	69.37	49 00	13.92	53	20.14	40 51	9.31*	36	95.68	59 46
12.88	45 54	66.92	36 19	14.94	13	12.99	38 28	15.37	9	69.56	40 08	13.29	55	20.46	46 00	12.49	39	96.22	50 26
14.94	46 9	69.53	37 25	15.03	25	15.10	38 37	15.86	9	69.68	48 02	15.86	57	20.71	47 30	13.42	40	96.54	54 55
12.30	16	70.88	35 17	15.03	27	15.56	34 31	15.03	13	70.37	45 02	14.71	51 5	22.13	46 37	12.30	41	96.65	51 21
13.50	17	70.97	37 47	15.42	31	16.20	38 59	13.71	24	72.22	46 08	10.95	5	22.20	42 40	15.52	42	96.77	55 46
15.86	19	71.34	33 58	15.86	36	17.11	38 31	11.72	33	73.86	46 06	15.03	9	22.82	40 00	10.95	42	96.77	53 18
15.18	27	72.71	33 15	15.86	40	17.72	33 50	15.86	34	74.03	40 45	15.86	10	23.08	44 15	15.42	49 0	0.09	57 49
14.00	29	73.16	36 32	9.94	40	17.78	35 00	7.04*	34	74.08	49 36	15.03	28	26.27	48 33	12.30	17	3.01	52 27
15.86	31	73.54	39 02	14.80	45	18.78	32 20	12.11	40	75.14	41 41	14.05	32	26.91	49 30	11.91	23	4.00	54 22
13.50	35	74.10	36 30	15.37	46	18.93	36 55	15.37	40	75.18	49 36	15.86	38	28.04	41 45	14.71	27	4.75	50 50
15.86	47	76.34	36 22	15.86	51	19.71	31 42	15.03	47	76.31	40 15	15.86	47	29.59	45 48	14.48	30	5.31	58 49
15.37	47 2	78.95	31 54	13.08	52	19.94	36 45	12.68	55	77.78	43 53	15.86	52 1	32.08	40 53	12.49	36	6.44	56 11
15.42	4	79.36	32 40	15.27	53	20.12	37 19	14.89	47 12	80.83	43 14	14.75	8	33.30	40 18	13.79	39	6.88	55 31

25 prec. + 49 sec. — 4′ 30″.

Area 35.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	a	x	$\frac{y+50'}{y-10'}$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.91	49 39	6.90	57 55	13.42	46 45	76.25	4 20	15.86	50 32	16.25	5 48	15.86	49 7	1.20	16 32	12.11	52 52	40.76	15 01
15.18	42	7.43	55 48	12.30	58	78.41	4 04	13.94	42	17.93	4 26	14.89	9	1.61	11 45	11.72	53 3	42.70	12 51
12.30	45	7.94	57 06	15.86	59	78.67	3 13	13.58	45	18.54	2 16	13.79	13	2.21	11 26	15.86	7	43.46	10 59
15.52	46	8.18	54 01	15.86	47 3	79.38	1 45	14.44	53	19.94	1 35	14.66	13	2.22	12 35	15.86	8	43.61	15 44
14.94	51	9.02	56 37	14.00	8	80.29	6 27	15.18	54	20.10	9 17	15.86	16	2.75	15 52	14.13	11	44.17	13 38
14.13	50 7	11.90	51 50	15.86	12	80.91	1 45	12.11	57	20.73	4 53	15.67	16	2.77	14 23	13.54	12	44.41	10 26
15.86	24	14.91	56 35	12.11	19	82.21	8 35	12.88	51 6	22.24	3 03	15.67	18	3.13	14 20	11.91	15	44.83	15 49
14.26	28	15.53	58 18	15.86	23	82.95	0 45	13.71	13	23.43	1 57	15.86	24	4.24	13 36	13.63	45 42	65.23	26 06
15.37	28	15.64	52 36	14.00	26	83.36	4 17	15.86	14	23.57	5 33	13.71	35	6.21	16 45	13.42	44	65.69	24 58
13.63	32	16.23	58 45	14.57	37	85.34	5 41	13.54	29	26.34	9 40	15.13	38	6.70	10 43	14.13	51	66.76	29 52
13.58	48	19.07	52 53	13.84	38	85.48	7 09	15.03	31	26.61	1 31	13.08	41	7.16	10 13	15.37	56	67.68	26 36
11.72	52	19.81	54 10	12.88	44	86.66	9 14	15.86	34	27.21	9 36	14.57	50	8.83	16 11	15.86	57	67.89	25 42
13.21	53	19.99	57 52	15.67	58	89.00	6 14	13.63	35	27.44	6 36	15.52	50	8.87	10 28	14.57	59	68.20	22 03
15.86	58	20.97	55 43	15.86	59	89.29	5 41	13.37	37	27.76	9 08	15.18	52	9.12	15 23	15.86	46 1	68.60	27 11
15.67	51 12	23.38	54 52	15.03	48 2	89.70	9 20	13.58	45	29.20	1 59	15.86	50 1	10.72	18 04	11.41	10	70.14	20 20
14.71	14	23.80	55 47	15.86	2	89.77	2 13	15.67	46	29.22	7 18	14.94	3	11.08	11 59	14.57	17	71.37	22 52
15.86	31	26.66	59 03	14.66	14	91.86	5 47	13.08	47	29.52	2 38	14.71	9	12.16	13 05	11.91	18	71.63	22 37
15.37	32	26.84	59 42	12.68	14	91.94	5 33	12.88	52 1	31.95	5 55	8.90*	15	13.25	15 14	14.57	29	73.51	22 29
12.68	42	28.63	56 05	14.94	16	92.15	3 45	15.86	6	32.88	3 42	12.88?	16	13.31	15 27	15.42	30	73.68	27 49
15.13	42	28.72	55 11	14.13	18	92.57	7 40	14.89	12	33.86	0 51	12.88	36	16.88	13 33	15.67	38	75.08	29 40
14.22	42	28.73	56 33	12.49	20	93.00	8 27	14.71	20	35.35	4 57	14.22	36	16.93	13 38	14.26	43	75.94	25 40
14.26	42	28.76	56 48	14.89	20	93.01	9 12	11.91	24	35.94	0 56	14.22	38	17.19	13 02	14.48	43	76.00	29 22
14.75	48	29.73	50 08	15.86	21	93.17	9 22	15.86	27	36.47	0 51	13.08	43	18.16	18 51	15.52	49	77.00	21 51
13.92	48	29.82	57 47	13.92	22	93.30	0 10	11.91	38	38.48	2 12	15.67	46	18.70	13 36	13.50	51	77.44	20 27
15.18	49	29.84	57 33	15.52	24	93.63	9 40	15.42	44	39.52	6 39	15.18?	51 0	21.20	19 02	13.71	47 2	79.29	25 43
15.13	49	29.94	56 18	13.84	26	93.92	4 15	15.86	45	39.73	9 39	9.47	7	22.28	12 51	15.18	3	79.43	22 13
11.33	54	30.80	55 35	13.92	27	94.20	7 37	13.58	50	40.58	8 48	15.67	7	22.32	12 04	13.63	9	80.45	21 44
15.42	54	30.84	58 00	13.08	28	94.41	9 13	15.37	57	41.90	8 25	15.86	13	23.36	11 40	15.86	12	81.03	22 35
14.71	52 1	32.09	56 13	14.71	29	94.61	5 52	15.03	53 8	43.73	5 10	15.86	14	23.62	12 29	15.52	12	81.13	22 56
11.14	3	32.46	58 28	15.67	30	94.70	8 46	15.86	45 42	65.08	14 11	13.63	19	24.42	19 52	14.57	16	81.82	28 32
15.03	13	34.21	57 23	14.71	35	95.54	1 01	15.86	47	66.07	10 15	15.67	27	25.90	11 54	12.68	17	81.86	29 24
15.86	14	34.40	55 35	15.86	39	96.37	2 27	15.37	55	67.42	18 42	15.86	32	26.69	16 22	15.86	23	82.91	25 42
11.91	15	34.46	58 45	15.86	53	98.80	4 59	15.86	46 10	70.06	12 04	13.71	44	28.81	15 04	15.27	26	83.52	24 34
15.86	16	34.73	53 48	15.86	54	98.86	5 58	15.08	19	71.58	10 26	15.86	45	28.96	12 44	15.42	29	83.96	26 52
15.67	18	35.08	55 43	14.57	56	99.24	0 45	14.94	24	72.55	14 36	9.52	48	29.50	17 01	14.26	34	84.92	28 59
12.03	22	35.78	59 54	14.48	49 2	0.38	8 56	15.67	32	73.94	16 04	14.00	55	30.72	17 37	15.18	42	86.24	23 32
15.86	23	35.88	52 13	13.50	15	2.67	8 37	14.13	33	74.20	10 35	15.13	58	31.35	11 46	15.67	43	86.47	26 13
14.57	37	38.33	51 55	15.67	17	3.04	4 28	15.86	40	75.35	15 36	14.26	52 0	31.70	12 44	14.22:	49	87.49	21 46
14.94	40	38.95	55 10	15.86	19	3.34	9 18	15.13	41	75.53	15 21	12.49	1	31.85	15 59	14.13	52	88.07	25 13
11.91	58	42.14	53 32	15.42	23	4.05	3 21	14.80	47 16	81.68	16 29	14.66	3	32.22	18 11	12.30	53	88.23	22 09
15.86	53 13	44.78	58 08	15.86	26	4.60	1 31	11.91	19	82.19	16 14	14.94	6	32.71	18 08	14.48	48 6	90.50	23 38
15.86	45 43	65.29	6 06	15.86	30	5.35	6 07	9.90	25	83.31	18 39	13.29	13	34.05	11 35	14.71	14	91.97	27 31
15.27	51	66.60	6 22	13.84	31	5.43	1 02	15.03	35	85.09	18 46	15.86	15	34.40	12 46	13.13	15	92.02	20 14
15.86	52	66.74	0 23	14.05	36	6.30	5 19	15.37	49	87.58	17 08	13.63	17	34.72	12 26	15.03	16	92.23	20 12
15.86	46 6	69.37	8 42	14.66	44	7.83	5 40	15.86	53	88.19	11 08	14.26	21	35.38	15 06	12.68	18	92.61	29 01
15.18	8	69.69	4 22	15.42	47	8.25	9 46	13.17	48 4	90.19	16 37	15.52	24	35.83	14 52	13.50	20	93.02	28 27
15.86	10	69.96	1 43	15.03	50 1	10.79	0 37	15.03	47	97.63	16 42	14.89	26	36.21	13 02	15.67	27	94.18	24 52
14.66	11	70.21	2 13	14.71	15	13.21	6 49	15.86	48	97.96	14 28	14.57	37	38.25	12 06	15.86	40	96.58	25 02
14.94	18	71.35	8 36	15.67	20	14.15	8 41	14.98	55	99.05	19 52	14.48	41	38.82	19 01	15.18	51	98.48	25 59
14.57	45	76.13	6 44	15.86	32	16.21	2 04	15.86	59	99.84	13 24	14.35	42	39.15	11 09	14.89	56	99.22	23 11

25 prec. + 49 sec. — 4′ 30″.

15^h Area 35. +45°

601—610				611—620				621—630				631—640				641—646			
Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.52	49 0	99.97	27 40	12.11	49 58	10.25	20 54	15.86	50 40	17.49	27 21	15.47	51 48	29.44	20 02	14 26	52 38	38.26	24 47
15.86	5	0.84	24 08	15.86	59	10.36	21 23	15.86	43	18.11	22 40	14.57	53	30.29	20 35	13.00	40	38.60	25 39
15.67	5	0.95	28 24	14.44	50 2	10.90	21 46	14.57	51 0	21.00	26 18	14.94	53	30.43	24 14	13.79	56	41.48	20 17
15.03	10	1.66	22 15	13.75	4	11.22	20 12	14.66	1	21.26	24 44	15 86	55	30.70	29 21	14.26	53 5	43.04	20 34
14.80	13	2.35	23 32	14.66	6	11.63	21 11	15.86	9	22.71	22 32	15.37	52 1	31.71	21 01	14.89	7	43.34	28 21
13.63	27	4.77	27 03	14.00	11	12.45	28 19	15.86	12	23.13	24 00	12.68	9	33 14	20 25	12 88	11	44.07	25 31
15.86	44	7.68	20 33	12.30	11	12.47	22 23	12.68	16	23.89	26 25	14.35	11	33.44	23 52				
14.94	45	7.87	28 53	15.18	15	13.25	29 51	15.52	17	24.08	24 32	13.08	11	33.47	23 45				
15.86	49	8.65	22 17	14.80	22	14.43	25 28	14.00	34	27.10	26 16	15.52	12	33.78	29 03				
15.03	52	9.13	24 54	15.86	31	15.97	28 32	15.27	48	29.44	26 38	12.68	28	36.54	22 02				

25 prec. + 48 sec. — 4′ 27″.

16^h Area 36. Centre for 1900: $16^h\ 46^m$ + 45° 20′. +44°, +45°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	a	x	$y+80'$	Int. magn.	a	x	$y+80'$	Int. magn.	a	x	$y+80'$ $y+20'$	Int. magn.	a	x	$y+20'$	Int. magn.	a	x	$y+20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.90	43 13	70.40	52 40	14.88	45 35	95.62	59 05	14.80	47 32	16.28	54 49	14.96	43 56	78.12	8 04	15.28	45 48	97.82	7 03
14.07	15	70.86	50 48	14.88	38	96.16	57 36	13.65	33	16.44	57 07	15.20	58	78.50	5 06	15.62	51	98.39	6 23
13.09	17	71.12	58 45	14.88	41	96.70	53 17	11.90	35	16.79	57 49	15.62	59	78.71	1 07	11.90	46 1	0.10	8 16
14.56	30	73.52	59 28	14.56	50	98.18	52 19	13.86	36	16.99	50 30	15.00	44 1	78.94	9 28	13.86	1	0.21	8 22
15.08	39	75.09	59 40	13.99	57	99.38	52 32	14.07	37	17.20	56 50	13.99	15	81.51	4 16	15.62	17	3.05	6 59
14.36	40	75.19	52 58	14.56	59	99.84	52 46	14.56	38	17.41	56 30	15.62	18	82.00	1 54	12.56	22	3.83	3 51
13.22	42	75.55	51 37	14.19	46 1	0.23	50 23	15.04	42	18.04	59 46	11.90	23	82.88	3 49	14.40	29	5.20	9 38
15.62	44	75.99	55 36	15.16	10	1.85	53 37	15.62	43	18.30	56 28	15.62	29	84.00	4 34	9.90*	36	6.30	0 55
15.62	49	76.89	50 09	15.62	11	2.01	55 20	13.43	45	18.66	58 26	11.90	30	84.16	7 02	10.57	52	9.14	6 13
11.90	52	77.40	55 32	15.62	16	2.88	53 36	15.00	48	19.13	53 24	14.15	38	85.60	3 00	15.62	56	9.95	5 55
15.62	56	78.01	51 44	14.60	18	3.14	50 28	10.62	53	20.00	55 09	14.96	41	86.06	0 24	12.65	47 7	11.90	6 19
15.20	44 1	78.88	52 04	15.62	19	3.38	54 44	15.28	54	20.20	54 05	15.28	46	87.01	2 55	13.86	10	12.43	8 39
12.56	14	81.22	54 38	14.88	26	4.65	50 58	15.28	56	20.46	51 57	13.65	48	87.32	2 02	12.96	17	13.56	9 43
14.88	23	82.85	51 35	15.00	33	5.84	55 37	14.80	48 1	21.39	52 52	12.78	48	87.34	7 12	15.62	19	13.99	4 53
15.62	29	83.82	56 34	13.35	39	6.87	56 11	14.96	5	22.16	54 51	15.62	59	89.23	6 19	14.40	26	15.14	7 47
15.62	33	84.61	59 23	12.78	44	7.72	54 47	15.62	9	22.78	55 52	11.45	45 1	89.64	4 36	13.73	26	15.21	6 32
14.80	38	85.43	58 28	15.62	50	8.76	55 37	13.00	11	23.26	58 16	14.07	1	89.65	2 54	15.62	33	16.32	3 01
14.60	51	87.75	59 33	15.62	52	9.12	54 44	14.96	13	23.48	52 28	14.76	11	91.32	1 47	13.99	37	17.11	4 36
14.76	51	87.76	51 07	15.62	54	9.52	52 55	15.62	14	23.67	59 42	15.62	15	91.99	5 37	15.62	49	19.23	5 40
14.76	51	87.77	58 15	14.15	57	10.09	59 27	10.80	17	24.29	59 52	15.62	15	92.02	7 41	14.88	48 9	22.85	7 25
15.43	56	88.72	53 36	15.00	58	10.30	51 39	13.65	24	25.41	53 43	15.62	16	92.24	9 51	14.15	19	24.57	0 02
15.00	45 3	89.83	53 52	14.88	47 0	10.65	50 39	13.52	35	27.44	59 31	15.62	17	92.38	9 10	15.43	24	25.41	6 24
15.62	5	90.21	52 30	15.62	8	12.13	56 14	13.62	42	28.68	59 05	14.27	22	93.26	3 45	11.90	25	25.58	4 58
15.20	11	91.32	58 33	15.00	14	13.17	57 45	13.86	43 18	71.48	4 57	14.56	26	93.93	1 18	15.16	27	26.01	1 57
14.48	13	91.64	50 28	15.62	15	13.28	58 13	15.43	38	74.91	8 35	11.67	28	94.40	3 00	13.94	35	27.35	3 06
11.90	14	91.93	55 00	14.15	20	14.11	57 23	14.23	39	75.03	9 41	11.45	32	95.10	7 18	14.68	35	27.40	7 52
15.62	18	92.55	50 46	13.65	21	14.40	54 26	14.23	41	75.44	9 58	15.16	34	95.36	8 29	15.16	36	27.46	1 21
15.20	27	94.08	53 56	13.78	24	14.86	50 26	13.00	42	75.58	5 00	15.62	37	96.00	1 31	12.87	36	27.56	0 21
12.34	32	94.98	58 46	15.28	28	15.49	53 49	15.00	46	76.29	6 06	15.43	37	96.00	0 21	15.00	40	28.22	2 09
13.09	33	95.30	51 50	14.56	31	16.11	59 22	13.35	54	77.73	5 48	15.20	38	96.15	4 26	14.68	45	29.16	4 37

25 prec. + 45 sec. — 2′ 39″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.80	48 46	29.29	2 15	12.78	47 33	16.40	19 08	13.35	45 28	94.45	28 41	11.90	43 47	76.82	38 11	13.99	47 34	16.41	39 48
14.36	46	29.32	5 41	15.62	34	16.58	17 10	14.40	37	96.02	29 25	15.62	49	77.03	36 16	13.73	37	17.03	30 29
14.68	43 16	71.18	14 12	15.62	42	17.99	16 53	15.62	40	96.49	26 03	15.28	44 2	79.41	33 14	14.19	49	19.04	35 18
14.68	18	71.52	16 18	14.76	48	19.04	15 48	13.86	40	96.53	24 47	9.70	4	79.65	34 23	15.62	52	19.61	37 32
13.78	18	71.55	13 21	14.60	52	19.66	12 18	9.00*	58	99.69	22 28	14.88	5	79.88	36 59	15.62	54	19.91	35 24
13.78	27	73.13	17 02	10.92	53	19.87	17 11	14.80	59	99.78	21 00	14.68	10	80.78	39 49	15.34	56	20.24	30 00
15.43	30	73.52	13 04	13.99	54	20.13	15 12	15.62	46 2	0.37	20 14	15.62	24	83.28	30 39	13.09	58	20.70	34 46
15.00	33	74.10	18 27	13.52	57	20.59	19 26	13.22	10	1.69	21 07	14.15	25	83.34	32 58	14.96	58	20.73	38 42
14.96	45	76.27	16 50	14.60	48 1	21.36	14 51	15.20	10	1.78	25 45	15.43	25	83.39	37 55	12.34	48 1	21.23	36 58
13.00	49	76.89	19 22	15.62	3	21.64	18 20	15.00	19	3.40	29 04	14.56	29	84.12	37 20	15.62	4	21.65	37 42
14.48	55	78.07	19 01	15.62	17	24.10	19 59	14.27	21	3.64	26 47	11.90	32	84.54	35 29	15.62	4	21.76	37 35
14.96	44 1	79.00	19 37	10.96	23	25.12	11 29	14.56	26	4.57	20 20	11.22	34	84.99	33 28	14.07	11	22.84	31 26
14.76	5	79.68	17 38	13.00	38	27.77	17 24	15.62	27	4.66	25 45	15.28	37	85.45	34 53	14.56	13	23.33	33 15
12.12	7	80.09	10 35	14.80	40	28.21	18 50	15.62	28	4.87	22 29	15.62	38	85.61	34 40	14.36	20	24.50	37 11
14.36	22	82.74	17 35	14.48	42	28.57	13 35	15.62	35	6.06	29 10	14.76	42	86.34	36 50	14.76	21	24.75	36 33
14.96	29	84.06	18 03	14.48	43 15	71.12	24 36	15.43	35	6.21	28 31	14.88	44	86.71	33 26	13.31	22	24.78	34 47
15.08	35	85.12	18 36	15.62	18	71.49	27 43	14.52	42	7.36	20 08	14.07	45	86.90	31 04	14.76	24	25.16	32 52
15.43	45	86.73	10 20	15.28	26	73.00	23 48	15.62	44	7.65	22 30	15.00	45 0	89.47	32 54	14.96	24	25.21	33 38
13.09	46	87.05	11 09	15.62	29	73.45	21 59	13.22	48	8.40	20 53	12.56	3	90.07	37 16	15.62	25	25.45	32 27
15.62	47	87.23	18 48	13.90	31	73.86	20 15	14.48	49	8.54	25 30	14.56	6	90.56	33 12	13.78	28	25.88	33 31
15.62	58	89.01	18 04	15.00	33	74.23	23 08	14.56	49	8.57	23 52	14.88	12	91.60	39 38	14.88	28	25.96	35 46
14.44:	45 5	90.29	19 56	13.99	35	74.48	21 43	15.62	54	9.42	25 18	14.07	21	93.24	37 50	15.62	33	26.77	33 29
14.96	10	91.15	13 30	15.62	39	75.29	25 27	14.36	47 1	10.64	22 46	15.62	37	96.00	30 11	13.78	34	27.03	35 30
14.15	12	91.63	10 31	14.88	47	76.57	20 40	14.64	10	12.25	20 21	15.62	38	96.12	33 34	15.62	43	28.56	30 38
15.62	16	92.21	16 07	13.78	48	76.81	28 54	15.43	10	12.26	25 29	15.16	39	96.31	34 00	14.76	46	28.96	34 05
14.60	17	92.51	13 04	15.62	49	77.01	26 41	15.62	16	13.42	27 54	15.08	43	96.96	37 16	11.45	46	29.03	32 10
12.78	18	92.57	11 21	13.43	54	77.87	23 22	13.56	23	14.50	29 48	12.56	45	97.43	32 05	13.65	43 11	70.50	40 12
13.00	19	92.75	16 51	11.12	44 3	79.40	22 30	15.62	23	14.56	24 19	15.16	51	98.43	37 48	15.43	16	71.41	48 07
15.62	21	93.07	10 31	10.92	4	79.62	25 34	15.00	26	15.15	26 26	15.62	56	99.38	30 04	15.08	31	74.06	40 59
15.62	24	93.63	11 01	15.62	10	80.77	26 13	15.08	34	16.57	28 51	14.56	59	99.84	30 32	14.96	34	74.51	49 02
14.48	30	94.66	16 51	14.60	12	80.99	23 12	15.62	40	17.63	23 30	13.94	46 0	0.07	35 13	14.07	40	75.51	42 46
14.56	42	96.76	12 01	15.43	20	82.51	21 25	14.72	48	18.94	20 28	14.56	3	0.60	35 50	15.62	50	77.35	44 52
12.78	42	96.84	16 45	15.62	21	82.55	21 52	14.68	48	18.99	21 21	15.62	4	0.62	30 54	10.92	51	77.43	48 40
15.62	44	97.13	17 22	14.52	21	82.60	29 54	15.08	48 1	21.17	27 36	12.56	22	3.82	35 19	15.28	56	78.33	47 56
15.43	45	97.41	13 21	15.62	21	82.64	25 47	15.62	10	22.88	21 54	15.62	27	4.80	39 18	15.43	57	78.47	47 15
14.76	59	99.89	11 29	15.62	25	83.27	21 04	15.62	11	22.99	28 25	15.43	30	5.34	37 59	14.88	59	78.94	48 11
12.78	46 1	0.27	16 26	13.99	30	84.18	24 24	15.62	11	22.99	21 50	14.88	31	5.40	36 35	15.62	44 11	80.96	49 49
14.88	6	1.03	19 44	12.69	35	85.10	29 41	11.90	14	23.57	26 02	15.62	41	7.20	38 54	13.22	11	81.02	47 22
15.62	12	2.05	11 50	9.58*	38	85.53	21 43	15.43	16	23.94	20 02	15.62	46	8.01	33 24	15.62	15	81.64	45 52
14.88	19	3.40	12 03	15.62	42	86.30	20 57	15.62	27	25.87	28 25	15.28	51	8.86	36 37	14.19	20	82.62	47 44
14.48	25	4.42	19 10	13.65	52	88.11	25 25	14.07	38	27.70	22 24	12.78	51	9.01	32 06	13.94	33	84.77	42 18
14.19	33	5.85	18 07	14.40	45 0	89.54	27 15	14.40	41	28.27	20 28	13.43	53	9.35	36 27	15.00	34	85.02	48 18
14.72	39	6.86	19 28	14.76:	3	89.95	21 49	12.12	46	29.15	24 32	13.65	58	10.14	39 52	12.56	39	85.86	42 52
14.88	56	9.86	18 30	15.62	3	90.01	29 15	12.56	50	29.75	21 26	13.78	47 0	10.52	35 37	14.48	44	86.72	46 36
13.22	57	10.01	19 20	15.62	7	90.73	25 45	14.80	43 11	70.45	32 23	14.48	7	11.76	32 24	11.12	56	88.82	43 56
15.62	47 9	12.17	15 49	14.07	10	91.29	26 56	14.15	23	72.53	32 20	15.62	13	12.80	35 31	14.48	59	89.44	44 03
14.40	13	12.84	17 18	13.22	17	92.39	21 48	15.00	26	73.11	33 30	15.62	16	13.30	31 12	15.62	45 4	90.26	49 22
13.35	15	13.17	14 25	15.62	19	92.80	21 58	15.20	27	73.24	35 18	12.12	20	13.92	32 30	15.62	8	90.93	40 35
14.07	24	14.74	19 48	14.27	23	93.46	22 01	15.28	30	73.73	35 00	14.80	22	14.27	38 48	15.28	11	91.37	44 39
15.62	28	15.57	15 05	14.36	25	93.88	26 07	13.86	47	76.76	38 44	15.28	33	16.35	36 50	14.88	13	91.77	44 35

25 prec. + 45 sec. — 2′ 39″.

Area 36.

401—410				411—420				421—430				431—440				441—449			
Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.88	45 21	93.27	46 16	15.62	46 13	2.31	47 30	15.28	46 36	6.23	44 58	14.80	47 21	14.07	45 09	15.43	48 15	23.55	41 47
13.35	23	93.51	42 43	14.56	16	2.71	43 49	13.65	37	6.40	40 34	15.62	25	14.86	49 18	15.62	17	23.89	49 41
15.16	23	93.53	48 28	14.36	18	3.12	48 45	14.40	39	6.86	44 52	15.62	41	17.67	49 39	14.56	30	26.20	40 00
15.00	28	94.35	41 49	15.16	21	3.59	44 51	15.62	48	8.45	48 48	14.36	42	17.72	45 31	13.78	32	26.49	41 48
15.62	29	94.51	41 35	15.28	21	3.75	47 11	14.48	51	8.92	45 55	15.20	50	19.28	49 05	15.62	33	26.76	44 46
15.62	45	97.32	47 23	14.27	24	4.11	40 52	14.52	59	10.32	40 20	15.62	52	19.58	40 47	15.62	38	27.55	49 49
14.88	56	99.33	41 38	15.62	26	4.56	47 46	15.62	47 12	12.54	40 28	13.22	54	19.91	47 01	12.12	38	27.63	41 04
15.43	58	99.67	45 35	15.62	30	5.18	48 44	15.62	15	13.14	45 48	13.22	55	20.07	41 51	14.80	42	28.34	47 30
13.00	59	99.76	47 15	15.62	31	5.48	46 00	15.62	17	13.49	46 50	15.62	48 6	21.92	49 43	13.43	49	29.42	49 00
15.62	46 6	1.08	49 43	13.00	36	6.20	42 45	14.68	19	13.80	49 14	15.62	13	23.15	49 56				

25 prec. + 44 sec. — 2′ 37″.

17^h

Area 37. Centre for 1900: $17^h\ 49^m + 45^\circ\ 0'$.

$+44^\circ$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.37	45 50	66.26	37 15	14.59	47 32	84.36	39 56	15.45	49 55	9.85	34 36	12.85	46 23	72.04	43 34	15.45	48 27	94.14	45 04
12.85	52	66.45	30 26	15.45	37	85.30	39 44	14.91	56	10.06	34 47	11.81	27	72.92	49 50	15.11	29	94.43	43 19
13.97	52	66.55	37 23	14.59	40	85.72	30 51	14.31	50 1	10.86	38 14	12.92	38	74.73	47 38	14.65	29	94.49	44 23
11.10	56	67.32	35 31	10.81	42	86.04	34 04	15.45	1	10.92	30 25	13.36	49	76.74	49 52	15.26	33	95.23	41 51
14.65	46 15	70.60	37 04	12.40	50	87.47	34 55	14.07	4	11.32	30 22	11.42	51	77.12	45 07	10.91	35	95.64	49 14
11.10	17	70.99	38 02	13.88	50	87.62	36 56	14.21	5	11.59	31 02	13.74	54	77.61	48 08	9.92	40	96.52	40 24
15.45	20	71.51	35 48	15.26	51	87.68	38 22	12.62	10	12.47	35 25	11.07	58	78.38	41 08	10.88	41	96.57	49 11
14.77	23	72.11	38 50	14.11	59	89.13	33 27	13.88	11	12.67	31 51	15.45	47 11	80.63	45 14	13.52	49 1	0.22	48 02
12.60	27	72.82	39 56	14.37	48 0	89.29	33 59	15.45	18	13.82	34 53	15.45	11	80.74	45 42	15.26	3	0.62	48 08
12.81	28	72.99	36 37	15.45	0	89.31	34 55	15.45	20	14.25	37 46	15.45	11	80.74	49 01	15.26	8	1.45	42 43
14.91	33	73.91	38 12	14.59	2	89.72	34 57	15.45	23	14.84	38 22	15.45	15	81.34	45 12	14.91	9	1.58	44 16
14.59	36	74.40	37 28	14.65	3	89.88	32 08	14.65	27	15.52	37 14	11.42	17	81.73	49 19	12.92	11	1.96	45 03
15.26	46	76.08	31 32	13.65	6	90.32	33 50	14.77	33	16.52	30 09	11.10	24	82.87	42 20	15.11	11	1.98	48 14
14.59	58	78.20	36 36	15.45	20	92.94	39 15	14.47	37	17.31	39 28	15.11	25	83.14	44 03	15.26	17	3.05	48 10
15.45	47 3	79.17	34 46	15.45	21	93.04	39 45	14.11	39	17.60	35 12	14.77	33	84.52	48 09	13.23	18	3.28	49 32
14.97	6	79.67	37 04	14.07	23	93.46	39 56	13.88	41	18.01	30 48	15.26	33	84.63	43 23	9.03*	20	3.53	41 33
13.40	7	79.84	35 01	15.45	28	94.27	33 22	14.65	51	19.72	37 23	15.45	37	85.26	49 51	14.59	21	3.73	42 36
14.07	7	79.88	38 15	14.47	29	94.45	33 00	11.74	52	19.92	33 05	15.45	38	85.47	49 54	10.99	25	4.38	40 46
15.45	12	80.70	39 00	15.45	33	95.13	38 08	13.88	51 10	23.15	34 16	15.45	44	86.60	49 38	14.47	27	4.75	45 03
11.58	12	80.75	30 00	14.37	49	97.96	39 48	15.26	45 51	66.52	42 03	15.45	46	86.89	45 04	13.97	28	4.93	43 07
14.77	13	81.02	37 23	14.31	50	98.19	38 55	15.11	55	67.12	44 13	13.97	57	88.89	48 20	14.65	29	5.12	40 29
11.26	14	81.22	34 24	14.91	49 3	0.47	33 49	15.45	57	67.53	41 56	14.37	48 0	89.26	43 19	14.91	30	5.34	49 15
15.45	21	82.42	39 54	15.45	6	1.08	32 31	13.61	58	67.77	49 20	14.77	3	89.81	48 21	14.65	32	5.70	46 45
13.11	24	82.99	32 24	13.65	7	1.16	30 13	13.23	59	67.84	44 52	14.65	5	90.16	41 26	15.26	34	6.02	45 06
15.45	26	83.18	34 02	15.45	11	2.03	37 18	12.57	46 4	68.69	41 53	12.23	5	90.16	40 05	15.45	35	6.29	40 55
12.57	26	83.19	39 27	10.51	27	4.79	38 00	9.95	14	70.60	43 12	13.61	7	90.62	44 22	15.11	37	6.56	46 43
14.37	27	83.45	38 07	14.11	34	6.05	32 48	14.65	16	70.86	49 26	14.21	15	91.93	44 07	14.91	50	8.85	45 32
13.65	29	83.83	36 33	14.65	42	7.47	36 20	13.44	16	70.87	40 44	14.37	17	92.42	49 42	13.23	50	8.95	42 32
14.31	30	84.04	34 00	15.45	51	9.06	37 06	13.65	20	71.63	47 41	12.92	18	92.59	44 50	12.67	52	9.30	49 26
7.53	32	84.28	31 01	15.45	53	9.36	38 51	14.21	21	71.86	49 43	12.92	22	93.27	43 13	14.37	52	9.31	49 46

25 prec. + 44 sec. — 0′ 26″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$\frac{y+60'}{y+0'}$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.45	49 55	9.72	46 21	12.57	47 26	83.36	57 19	12.57	50 41	17.84	51 04	14.47	48 28	94.38	0 46	15.45	51 5	22.07	0 44
12.67	50 1	10.82	46 34	15.45	38	85.41	56 57	15.45	50	19.51	56 27	11.90	31	94.80	2 52	15.11	9	22.70	0 57
12.33	2	10.99	40 10	13.52	39	85.67	57 54	15.11	51	19.73	58 50	9.71	31	94.85	0 28	13.61	15	23.79	5 16
15.45	7	11.95	49 05	15.45	39	85.69	51 39	12.07	55	20.32	59 19	15.11	40	96.50	9 57	15.45	16	23.93	8 23
14.37	8	12.09	41 25	11.42	47	87.06	56 33	14.97	55	20.40	58 46	11.90	43	97.02	5 48	15.45	19	24.49	0 59
13.88	8	12.15	48 45	15.45	50	87.69	59 22	15.11	51 0	21.23	58 05	14.77	45	97.29	8 52	15.45	45 42	65.08	16 37
14.37	21	14.29	43 45	14.47	53	88.14	51 14	14.11	4	22.04	58 06	14.47	45	97.34	5 16	13.31	52	66.85	13 00
14.11	23	14.81	44 53	15.11	53	88.15	53 03	14.65	6	22.37	57 44	13.19	47	97.67	9 48	14.07	55	67.38	16 57
14.07	25	15.11	42 56	13.31	59	89.18	55 17	14.07	7	22.50	53 36	15.45	51	98.36	0 59	15.45	46 8	69.64	12 55
14.65	25	15.12	45 39	12.74	48 4	90.02	57 14	15.45	7	22.57	57 32	11.90	49 2	0.33	7 28	15.45	23	72.33	13 41
15.45	26	15.28	43 43	15.45	11	91.32	56 20	15.45	10	22.98	50 28	14.97	9	1.66	8 02	15.45	26	72.85	13 21
15.45	29	15.73	44 05	14.91	12	91.57	51 00	15.45	13	23.50	53 29	15.26	11	1.86	5 06	15.45	27	73.04	14 32
15.45	30	16.02	45 45	12.07	13	91.60	51 18	14.77	17	24.18	53 59	15.11	14	2.40	6 48	13.52	29	73.50	14 01
12.50	32	16.35	41 38	7.33*	16	92.13	55 59	15.45	17	24.27	58 53	14.77	23	4.11	5 44	15.45	40	75.41	17 06
15.26	32	16.36	44 24	15.11	16	92.20	58 26	14.47	45 42	65.10	3 50	13.11	24	4.19	9 24	10.21	41	75.53	10 53
13.65	32	16.40	40 46	12.64	23	93.49	55 35	15.26	51	66.64	2 05	12.57	30	5.33	8 18	14.21	44	76.02	11 42
14.91	40	17.71	46 55	15.45	26	94.06	56 53	14.11	46 5	69.13	2 06	15.45	35	6.13	5 35	15.45	44	76.10	19 05
12.57	46	18.85	47 38	15.45	29	94.51	56 57	15.11	9	69.88	2 38	14.07	35	6.17	3 57	14.71	47	76.59	19 45
15.45	47	19.04	49 08	14.47	32	95.03	52 22	12.50	10	69.93	3 28	14.07	39	6.95	5 14	14.21	52	77.56	19 28
13.23	55	20.45	47 19	15.11	35	95.64	55 08	15.11	10	69.99	5 06	15.26	43	7.55	9 54	15.45	55	78.01	13 41
12.40	51 8	22.77	42 21	15.45	37	95.85	52 11	14.31	12	70.30	8 52	14.11	46	8.20	2 27	11.74	47 10	80.62	13 07
15.11	10	22.99	40 37	14.91	37	95.86	55 55	15.45	13	70.53	1 07	12.23	47	8.27	0 35	15.45	20	82.34	15 49
12.57	17	24.39	47 30	13.44	40	96.52	58 58	14.21	20	71.80	7 51	14.59	49	8.68	9 20	13.97	23	82.85	16 41
15.45	19	24.67	45 43	13.65	51	98.47	57 45	15.45	22	72.06	0 50	13.61	50	8.82	0 13	14.47	26	83.48	16 03
15.26	45 47	65.91	55 20	14.65	49 2	0.33	58 08	12.07	27	73.02	2 50	12.07	51	9.02	8 39	13.74	27	83.55	15 50
14.47	50	66.36	56 32	14.77	13	2.25	53 56	14.91	28	73.11	8 04	14.59	52	9.12	0 49	13.83	31	84.26	16 00
15.26	52	66.67	56 23	15.26	16	2.82	51 04	15.45	39	75.20	5 35	15.45	53	9.40	9 14	15.45	32	84.54	18 18
12.07	46 2	68.48	51 36	12.07	21	3.71	50 48	11.58	46	76.27	5 15	15.45	54	9.59	3 55	15.11	37	85.32	15 11
12.23	3	68.69	58 03	13.74	23	4.12	56 09	14.31	46	76.29	2 27	15.45	55	9.63	6 13	15.11	41	86.13	10 08
11.10	4	68.86	50 02	12.74	33	5.89	58 35	15.45	47 0	78.82	2 56	11.74	57	10.10	8 38	12.40	42	86.19	19 40
13.65	10	69.82	53 37	13.44	41	7.35	57 13	15.45	3	79.30	7 56	15.45	50 5	11.51	3 06	15.45	42	86.29	16 26
15.26	21	71.90	58 38	15.45	46	8.08	57 26	15.45	14	81.20	2 49	14.59	10	12.34	4 44	13.00	44	86.68	11 35
12.40	27	72.89	58 00	15.26	48	8.42	51 13	13.61	19	82.15	3 14	14.59	10	12.42	2 19	13.11	48	87.25	15 38
15.45	29	73.29	58 07	14.97	48	8.44	56 59	13.11	20	82.42	5 24	12.67	14	13.08	8 54	13.19	51	87.82	18 57
15.26	31	73.61	56 37	14.91	51	8.97	53 26	14.59	35	85.03	1 52	15.45	14	13.12	1 18	14.07	52	87.95	18 59
15.26	32	73.73	59 50	13.31	51	8.99	55 40	14.37	36	85.22	5 52	15.45	18	13.71	4 32	10.20	54	88.36	13 10
13.88	32	73.87	52 01	15.45	51	9.00	50 16	10.47	41	86.06	0 18	15.45	22	14.52	7 20	14.91	56	88.67	12 29
13.79	34	74.11	59 59	13.83	55	9.70	55 55	13.11	45	86.78	3 09	14.21	23	14.74	9 52	10.09	56	88.74	18 24
13.61	38	74.85	54 09	14.65	57	10.02	53 29	14.65	52	88.01	6 35	15.45	28	15.52	9 19	12.92	59	89.34	13 52
9.94	42	75.61	59 46	14.47	58	10.24	53 52	12.92	54	88.39	0 39	14.65	31	16.06	4 49	11.90	48 2	89.70	13 23
13.88	48	76.66	54 05	12.57	50 0	10.60	55 02	13.74	48 6	90.46	7 13	11.74	32	16.22	9 23	14.59	6	90.47	13 11
14.21	52	77.28	56 38	15.11	1	10.78	59 37	14.91	6	90.49	2 14	13.97	34	16.58	5 19	15.45	8	90.81	12 27
13.40	53	77.53	58 00	15.45	3	11.21	57 13	15.26	8	90.88	4 09	13.61	41	17.87	0 37	15.11	19	92.87	16 07
14.77?	59	78.57	53 48	15.45	7	11.95	58 04	13.74	10	91.17	4 13	15.11	42	18.04	6 25	12.23	23	93.56	19 15
14.11	59	78.60	55 16	15.11	8	12.08	57 51	14.31	12	91.59	8 31	13.97	44	18.29	1 53	15.26	24	93.62	14 08
14.65	47 0	78.75	53 28	14.59	27	15.36	50 42	12.85	12	91.60	9 11	10.79	46	18.73	2 51	14.31	27	94.11	18 45
13.31	3	79.30	51 11	14.59	27	15.47	57 07	13.44	15	92.04	5 52	15.45	49	19.32	2 48	14.59	31	94.93	13 33
14.65	9	80.35	58 17	14.77	30	15.86	58 24	15.26	18	92.54	4 58	14.21	53	19.98	8 06	14.59	32	95.01	13 28
15.11	13	81.12	54 30	13.65	30	15.97	59 13	15.45	20	93.01	3 48	13.19	51 1	21.37	3 42	15.11	41	96.66	19 56
12.74	14	81.22	52 50	14.11	33	16.41	54 05	14.16	27	94.18	0 07	15.26	5	22.07	0 35	15.45	43	96.96	12 22

25 prec. + 43 sec. — 0′ 24″.

17^h Area 37. + 45°

401—430				431—460				461—490				491—520				521—526			
Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′	Int. magn.	α	x	y + 0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.52	48 48	97.84	16 17	12.92	50 37	17.03	15 46	13.44	47 18	82.07	25 47	13.83	49 13	2.34	20 45	14.11	51 5	21.91	26 28
15.11	50	98.19	11 06	14.21	38	17.18	15 48	14.37	23	82.92	22 31	15.45	15	2.66	21 21	13.83	11	23.04	29 55
15.11	51	98.34	10 16	14.47	48	19.04	17 38	10.86	25	83.27	26 43	14.37	19	3.33	23 47	14.59	12	23.17	23 29
14.91	51	98.35	15 59	13.00	53	19.83	18 01	12.57	26	83.50	23 52	14.47	25	4.32	29 25	14.47	12	23.25	28 37
12.57	51	98.48	11 46	15.26	56	20.50	16 26	13.65	40	86.02	26 16	13.79	29	5.14	20 11	15.45	17	24.10	24 11
15.45	53	98.76	15 17	15.45	59	20.87	19 43	15.26	44	86.74	26 01	15.45	29	5.15	21 32	11.04	20	24.65	21 55
15.45	53	98.80	15 02	15.11	59	21.02	17 34	15.45	47	87.17	29 58	15.45	30	5.19	26 37				
14.47	57	99.43	15 41	14.11	51 0	21.21	18 01	13.19	49	87.53	23 34	15.11	31	5.43	25 16				
11.42	49 9	1.59	11 43	10.89	11	23.00	14 34	13.44	51	87.93	23 09	14.11	39	6.82	28 15				
15.11	10	1.75	12 43	14.31	16	23.91	17 19	13.88	56	88.68	22 43	12.67	49	8.56	27 44				
15.45	14	2.43	10 43	14.65	19	24.40	18 06	15.45	56	88.80	28 35	14.91	51	8.87	25 11				
15.45	17	2.95	10 05	12.40	45 50	66.64	27 31	15.26	59	89.37	22 06	14.65	50 0	10.51	26 30				
15.45	21	3.76	19 57	12.92	46 15	71.00	27 54	13.40	48 8	90.81	29 17	13.31	2	10.81	28 25				
14.37	25	4.35	15 24	15.45	15	71.09	23 44	10.95	15	92.08	22 35	14.77	7	11.78	22 47				
13.61	27	4.68	14 54	12.40	17	71.35	22 16	14.65	24	93.66	20 42	14.59	10	12.33	27 56				
13.88	28	4.95	15 22	14.59	17	71.35	22 24	13.44	27	94.26	24 09	13.83	11	12.54	28 28				
14.21	28	4.98	14 03	12.92	17	71.40	24 22	14.97	36	95.71	23 09	14.65	21	14.25	29 59				
14.65	34	5.99	18 22	14.37	19	71.71	24 39	13.44	36	95.73	26 59	10.95	22	14.42	25 41				
15.26	36	6.29	12 51	10.31	25	72.75	24 14	13.61	38	96.23	26 09	14.77	29	15.53	26 34				
13.70	39	6.79	19 48	13.83	28	73.39	22 11	13.19	40	96.40	24 21	15.45	30	15.84	21 18				
12.92	42	7.37	10 43	14.91	29	73.49	25 04	14.65	44	97.22	23 39	14.11	32	16.12	24 42				
14.77?	55	9.65	15 55	15.45	44	76.14	22 44	14.47	44	97.27	20 33	13.74	32	16.20	24 27				
14.21	56	9.92	18 27	13.44	45	76.25	21 02	11.90	45	97.30	21 47	14.31	37	17.10	21 34				
12.23	50 0	10.62	14 00	13.97	54	77.88	27 05	13.00	51	98.49	22 40	13.83	38	17.21	23 06				
15.45	12	12.75	16 52	15.45	56	78.26	23 04	15.45	49 3	0.60	27 54	14.21	39	17.39	27 27				
13.11	13	12.80	17 37	15.45	57	78.34	25 22	11.74	3	0.61	27 15	15.26	50	19.39	24 31				
15.45	15	13.19	11 13	15.45	58	78.53	29 00	15.45	7	1.15	20 48	14.21	52	19.67	21 10				
11.90	21	14.21	12 40	13.00	58	78.56	26 13	14.91	9	1.55	27 55	12.57	58	20.64	20 39				
12.23	30	15.78	18 32	15.26	59	78.69	28 34	14.21	11	1.96	22 23	15.45	59	20.91	27 16				
13.65	31	16.10	11 16	11.74	47 12	81.00	23 09	13.11	13	2.27	27 52	11.74	51 1	21.19	27 33				

25 prec. + 43 sec. — 0′ 24″.

18^h Area 38. Centre for 1900: $18^h\,46^m + 45°\,10′$. + 44°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.41	44 22	82.57	57 21	15.50	44 33	84.57	53 14	15.84	44 46	86.90	53 31	15.50	45 1	89.48	53 45	13.64	45 18	92.57	56 51
13.76	22	82.70	59 02	15.84	34	84.72	58 31	14.70	47	87.07	52 07	13.64	2	89.68	53 31	14.43	18	92.63	52 42
14.95	24	82.95	57 37	15.84	34	84.84	54 02	15.65	49	87.47	50 29	14.65	2	89.68	56 29	14.82	21	93.15	52 30
15.84	25	83.11	54 46	14.82	35	84.88	54 35	15.01	51	87.75	53 27	14.14	3	89.93	50 57	15.84	21	93.17	51 02
13.22	25	83.16	57 59	12.90	36	85.16	55 16	13.76	51	87.81	54 45	12.50	5	90.23	59 13	14.82	22	93.31	57 12
15.84	25	83.25	50 21	15.50	38	85.50	53 05	15.28	53	88.06	54 41	15.28	7	90.62	50 59	15.28	25	93.79	51 58
15.84	26	83.39	50 41	15.01	40	85.83	54 44	13.02	53	88.18	53 28	15.36	7	90.66	58 53	15.84	27	94.11	58 16
15.50	28	83.71	58 36	14.82	42	86.13	52 32	12.36	55	88.54	52 08	14.70	8	90.75	52 51	12.65	27	94.15	59 23
11.68	29	83.87	55 42	14.95	44	86.56	58 28	15.84	57	88.89	53 46	13.84	10	91.19	50 47	15.84	27	94.20	55 29
15.28	31	84.27	50 34	14.65	46	86.87	50 43	15.84	59	89.14	56 28	15.84	13	91.75	52 41	15.50	29	94.58	57 46

25 prec. + 44 sec. + 1′ 37″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$ / $y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.19	45 30	94.72	53 30	14.38	46 25	4.40	58 34	12.80	47 46	18.81	55 40	15.50	45 17	92.41	0 19	14.70	46 2	0.32	0 06
11.81	32	95.03	57 52	14.05	30	5.24	59 06	15.28	47	18.97	53 13	14.65	17	92.44	5 34	15.84	8	1.44	6 22
12.36	33	95.22	58 23	13.92	30	5.27	50 22	14.05	48	19.04	55 08	13.12	18	92.67	3 03	10.73*	9	1.52	7 17
13.76	34	95.32	50 34	13.92	30	5.33	50 01	15.84	49	19.25	52 50	15.84	20	92.90	4 02	14.70	12	2.08	9 58
15.65	35	95.62	53 12	13.76	32	5.62	54 57	11.68	49	19.30	57 11	15.50	22	93.26	7 08	14.88	13	2.31	0 02
14.14	36	95.76	55 38	12.36	36	6.29	56 47	15.14	49	19.36	58 49	14.14	22	93.35	6 51	12.08	17	3.05	3 29
14.38	36	95.81	58 57	14.95	37	6.51	55 20	15.01	50	19.42	59 07	13.84	23	93.54	4 38	14.65	18	3.11	6 58
15.14	36	95.83	53 58	15.28	38	6.70	51 31	14.95	50	19.55	55 00	15.84	24	93.72	3 33	15.36	21	3.66	4 46
15.65	37	96.01	55 45	15.84	39	6.89	51 25	15.84	51	19.66	51 43	15.84	25	93.82	9 07	15.84	21	3.73	5 03
14.19	38	96.11	53 28	15.84	40	7.02	58 06	15.01	51	19.71	50 39	14.82	25	93.88	3 07	15.84	22	3.92	0 19
12.65	39	96.36	58 27	13.92	42	7.42	59 54	15.84	54	20.11	54 28	12.80	27	94.12	5 34	14.19	23	4.08	0 56
13.19	40	96.39	56 46	15.65	45	8.03	53 01	14.28	54	20.16	53 35	15.50	28	94.35	8 15	14.95	25	4.38	4 03
15.84	40	96.44	55 47	14.14	48	8.44	50 32	15.84	54	20.23	54 28	14.43	31	94.91	6 41	13.19	29	5.19	9 02
13.76	41	96.62	58 33	15.50	48	8.55	51 27	15.36	55	20.35	53 42	15.28	31	94.96	2 32	14.05	30	5.23	8 26
15.84	42	96.88	56 47	14.82	51	9.07	50 11	14.65	57	20.79	52 12	13.06	31	94.96	6 32	11.28	33	5.86	4 38
14.28	44	97.22	52 00	12.96	52	9.14	53 37	14.82	48 0	21.24	53 25	15.84	33	95.23	1 24	15.01	37	6.55	6 45
15.84	47	97.64	56 49	14.38	54	9.48	58 59	12.90	1	21.42	58 01	12.22	33	95.24	6 17	14.82	37	6.61	4 08
12.36	49	98.02	57 32	13.97	58	10.18	58 49	14.53	2	21.60	50 42	13.29	33	95.26	1 04	14.14	38	6.79	1 14
15.84	50	98.22	58 07	15.84	58	10.20	56 32	11.81	2	21.65	53 23	14.65	33	95.31	7 15	11.68	42	7.39	7 23
12.80	51	98.38	59 03	15.84	58	10.28	54 29	14.95	4	21.97	53 01	13.72	34	95.45	3 33	10.90	45	7.87	2 06
13.46	52	98.53	54 56	15.84	47 1	10.86	55 47	14.82	44 23	82.95	9 17	13.72	35	95.52	9 31	13.84	46	8.14	7 12
14.28	53	98.69	54 42	15.28	4	11.36	56 11	15.28	24	83.06	8 15	15.84	35	95.62	4 03	15.84	47	8.28	3 13
13.72	54	99.01	56 20	15.14	4	11.40	57 57	13.97	24	83.11	1 22	11.68	36	95.74	9 42	11.68	51	8.95	6 32
15.84	55	99.12	56 58	13.53	6	11.59	59 16	15.84	30	84.19	3 28	15.01	36	95.74	7 29	14.38	51	8.98	0 13
11.68	56	99.37	58 33	15.01	7	11.82	52 37	12.90	32	84.50	9 01	14.82	38	96.04	4 29	15.14	52	9.22	6 38
14.95	57	99.42	51 52	14.70	8	12.05	56 11	13.12	34	84.79	5 08	15.08	39	96.26	0 08	15.65	54	9.55	9 42
14.53	57	99.44	57 59	15.01	9	12.16	58 29	10.73	39	85.66	4 14	15.14	39	96.33	7 33	14.53	56	9.80	5 27
15.84	58	99.60	56 48	15.65	10	12.30	55 40	12.50	40	85.81	3 52	13.84	40	96.48	5 08	15.14	58	10.16	4 57
15.50?	58	99.71	51 19	15.36	12	12.77	53 50	15.36	43	86.47	4 39	6.70*	41	96.57	8 45	14.19	47 0	10.67	0 45
13.76	59	99.87	50 42	14.53	19	13.91	52 52	15.14	47	87.07	8 30	14.43	42	96.74	7 18	14.38	0	10.67	0 03
14.82	46 1	0.15	54 14	13.72	20	14.18	52 00	15.14	50	87.57	1 49	13.12	42	96.75	5 22	14.19	1	10.68	0 22
15.65	2	0.39	59 40	15.65	21	14.32	52 39	14.82	50	87.64	6 22	14.43	44	97.13	0 51	15.08	1	10.69	9 38
10.87	2	0.41	50 47	15.50	23	14.63	53 10	14.82	51	87.78	3 53	15.65	45	97.42	7 07	15.28	4	11.23	2 49
15.84	3	0.48	54 54	13.12	23	14.66	52 56	13.57	52	88.07	4 50	14.28	47	97.63	2 52	15.01	4	11.38	8 10
13.53	3	0.49	51 52	15.84	25	15.09	59 34	15.01	54	88.31	4 30	15.50	48	97.85	0 54	15.84	5	11.40	6 13
14.14	3	0.60	56 06	13.57	27	15.48	50 10	15.01	55	88.46	0 02	15.50	49	98.03	3 03	15.50	7	11.86	3 43
14.95	4	0.66	58 13	13.29	28	15.49	59 07	15.84	56	88.73	4 31	13.29	49	98.10	5 51	14.38	8	12.06	7 41
13.12	4	0.74	54 00	14.28	29	15.72	59 04	12.90	58	88.98	6 55	14.53	50	98.24	4 34	15.84	9	12.22	8 00
14.95	6	1.02	56 27	13.46	30	15.99	51 26	15.01	45 0	89.50	0 44	15.84	50	98.25	7 28	15.65	11	12.49	2 10
15.65	10	1.82	56 28	10.45	33	16.49	51 43	14.82	3	89.99	8 00	15.84	50	98.26	8 21	15.01	11	12.50	1 02
13.39	11	1.90	59 46	15.36	35	16.85	56 11	13.97	4	90.12	8 13	11.95	51	98.35	0 58	15.01	13	12.83	1 41
14.70	11	1.90	52 12	14.43	36	17.02	51 48	15.01	5	90.38	6 55	13.57	51	98.44	1 29	15.65	13	12.85	6 30
14.28	12	2.15	51 55	15.84	38	17.34	54 52	14.70	6	90.54	4 51	15.50	52	98.67	1 39	14.65	14	13.03	2 10
15.84	14	2.51	54 10	13.97	38	17.38	54 48	15.84	6	90.56	9 58	14.82	53	98.72	1 13	14.70	16	13.40	8 06
15.84	14	2.52	50 09	15.84	40	17.71	51 26	14.65	10	91.14	5 16	14.76	54	98.94	0 16	14.95	21	14.35	5 24
15.65	14	2.54	59 16	15.84	42	18.05	53 01	14.70	11	91.29	6 09	14.53	54	99.02	0 08	15.28	27	15.33	8 11
15.84	16	2.92	54 20	15.84	43	18.17	55 35	14.82	14	91.79	6 52	14.14	57	99.43	7 30	14.38	31	16.05	0 51
13.29	18	3.13	55 11	15.84	43	18.31	55 08	13.53	14	91.82	8 09	14.28	58	99.59	5 12	15.28	35	16.73	2 33
12.90	20	3.50	54 17	14.95	45	18.60	59 33	14.82	15	92.03	5 19	14.65	59	99.75	7 39	15.84	35	16.84	6 00
14.65	24	4.16	51 20	13.92	45	18.62	51 37	13.97	16	92.22	1 22	15.50	46 1	0.21	7 20	15.01	36	16.97	9 07

25 prec. + 44 sec. + 1′ 40″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.36	47 37	17.04	6 20	11.95	45 20	93.05	11 15	14.65	46 36	6.42	13 33	14.82	47 48	19.08	16 00	15.84	45 13	91.83	26 23
15.84	37	17.14	3 37	14.53	21	93.16	14 50	14.53:	37	6.50	14 46	15.84	50	19.36	18 37	15.84	15	92.18	27 34
14.82	38	17.25	0 22	15.28	22	93.29	19 27	15.65	42	7.44	16 39	12.08	51	19.58	17 15	13.19	16	92.21	20 59
14.70	40	17.65	2 02	15.28	23	93.55	18 42	15.36	46	8.12	11 26	14.65	51	19.62	15 05	15.14	16	92.37	29 52
14.65	41	17.88	5 05	14.28	24	93.60	19 44	14.85	46	8.15	14 06	12.08	53	19.87	18 25	15.50	21	93.23	27 46
15.01	42	17.96	8 12	14.82	25	93.77	18 30	15.01	47	8.26	14 28	14.28	53	19.89	14 29	15.14	23	93.53	21 09
13.64	44	18.40	7 19	14.28	26	94.00	13 08	15.14	47	8.33	16 34	15.14	57	20.59	15 30	15.01	23	93.56	21 52
14.43	44	18.43	5 38	10.66	28	94.39	16 34	14.38	47	8.34	18 07	13.12	57	20.59	12 25	15.84	24	93.63	28 54
12.80	49	19.25	0 36	15.84	29	94.46	17 34	15.65	50	8.81	18 02	15.01	59	20.88	13 40	14.95	25	93.89	21 24
11.54	53	19.87	1 37	15.65	30	94.66	13 03	15.84	51	8.96	19 17	12.65	59	20.97	19 16	14.82	26	94.09	22 19
14.70	53	19.96	8 27	15.84	32	95.16	19 33	12.50	51	9.04	16 37	14.82	48 0	21.07	10 44	15.28	28	94.36	28 07
12.65	54	20.18	2 29	15.84	34	95.40	18 57	13.29	53	9.26	15 01	13.29	1	21.33	18 06	14.53	31	94.97	21 40
13.92	58	20.86	7 47	14.28	36	95.69	14 39	14.05	53	9.31	14 21	15.84	4	21.89	11 15	12.65	34	95.52	27 16
14.82	48 0	21.16	7 50	13.53	37	95.91	14 51	12.65	53	9.38	15 06	12.08	44 21	82.63	28 00	14.38	36	95.79	22 51
15.28	3	21.78	5 36	12.22	38	96.07	18 21	13.29	55	9.75	19 06	12.22	24	83.13	24 22	14.70	37	96.03	29 40
15.50	4	21.94	4 01	15.84	42	96.79	16 42	15.14	59	10.31	14 05	13.1ne	25	83.30	26 25	13.29	40	96.46	20 35
13.22	44 18	82.05	17 22	14.14	45	97.32	12 50	15.84	59	10.32	14 21	12.80	25	83.31	25 07	14.65	41	96.73	26 45
15.84	24	83.14	17 45	14.70	46	97.45	14 07	15.84	47 1	10.68	17 17	14.95	26	83.51	28 09	13.84	43	97.03	29 25
11.95	26	83.41	14 33	15.65	46	97.47	16 41	12.22	1	10.76	12 27	14.82	30	84.19	20 52	15.84	43	97.05	25 43
14.14	29	84.01	16 56	14.65	47	97.63	15 09	14.82	1	10.80	11 38	14.95	33	84.66	22 29	15.84	44	97.23	29 56
12.65	33	84.72	14 56	13.84	47	97.75	12 38	11.28	3	11.04	14 37	15.84	33	84.81	29 29	15.84	46	97.48	29 55
13.84	36	85.24	15 43	15.84	47	97.75	18 56	13.57	4	11.22	14 12	15.36	37	85.37	27 04	15.65	46	97.51	22 04
15.50	39	85.71	14 18	14.82	50	98.26	13 10	14.95	5	11.38	16 18	15.84	38	85.59	21 06	11.68	52	98.53	27 02
14.19	44	86.56	18 55	12.80	52	98.62	16 56	12.44	6	11.54	19 40	15.14	39	85.74	21 01	10.34	55	99.07	26 17
15.50	44	86.64	10 54	11.68	52	98.64	17 31	15.50	6	11.62	15 27	12.65	40	85.99	23 12	14.70	55	99.20	21 46
9.68*	46	86.94	17 59	14.95	52	98.65	11 49	12.80	8	12.00	13 24	13.92	43	86.55	27 36	15.84	57	99.43	28 43
15.65	46	86.99	13 10	10.81*	52	98.67	13 34	13.83	9	12.10	17 01	14.48	45	86.82	20 27	14.28	57	99.55	25 18
13.12	48	87.40	10 47	12.80	53	98.78	11 05	15.50	9	12.20	11 44	15.84	47	87.23	21 26	14.28	59	99.81	26 45
12.90	49	87.46	19 06	11.68	55	99.19	11 00	14.95	11	12.43	12 34	14.19	48	87.43	24 33	15.50	46 0	99.92	23 34
14.65	50	87.72	17 46	15.84	57	99.40	17 15	14.95	11	12.58	17 49	14.95	49	87.58	29 32	12.90	13	2.20	26 48
15.84	57	88.88	18 57	15.50	58	99.59	18 32	14.95	14	12.96	18 35	15.28	50	87.69	28 50	15.84	14	2.53	29 07
15.01	58	89.13	16 53	11.41	59	99.84	18 37	13.12	14	13.11	11 51	14.05	50	87.70	27 11	14.95	15	2.57	25 47
13.22	58	89.13	12 25	13.84	46 0	99.94	13 31	11.73	15	13.13	10 24	15.50	51	87.89	27 07	13.29	16	2.73	23 31
14.53	58	89.17	18 07	15.50	0	99.99	15 52	15.84	15	13.21	18 35	14.28	53	88.32	22 45	14.95	17	2.93	22 41
14.65	45 0	89.37	11 51	15.43	2	0.34	10 20	12.65	19	13.96	10 12	15.65	55	88.67	26 31	15.14	19	3.27	23 39
14.82	0	89.52	13 42	14.28	6	1.07	17 41	13.76	20	14.17	12 20	14.82	58	89.04	24 38	14.19	19	3.31	24 39
15.65	2	89.77	17 10	15.50	7	1.20	11 30	15.65	26	15.18	11 19	14.82	59	89.28	29 40	15.84	19	3.39	24 19
14.43	2	89.78	12 24	15.84	8	1.43	18 09	10.67	29	15.61	13 41	15.84	45 0	89.40	25 42	13.92	19	3.40	26 57
15.84	5	90.32	13 47	14.70	9	1.54	11 33	15.28	30	15.75	14 30	12.22	0	89.49	29 00	15.01	21	3.63	29 02
14.19	7	90.59	10 15	14.82	10	1.70	18 18	15.84	31	15.95	15 51	15.84	2	89.77	22 00	15.01	21	3.69	21 30
15.65	8	90.78	19 58	9.30*	12	2.08	12 24	15.14	31	16.06	18 37	15.01	2	89.88	22 46	15.84	21	3.73	25 08
13.29	8	90.80	10 28	15.01	12	2.19	17 38	14.70	31	16.06	16 45	14.19	5	90.27	28 30	12.65	22	3.93	22 27
12.08	9	90.96	11 48	15.50	14	2.38	16 49	14.95	33	16.32	14 55	15.28	6	90.55	24 05	14.43	23	4.02	26 16
15.28	9	91.07	11 04	12.80	18	3.14	16 27	15.84	33	16.36	10 20	14.05	7	90.66	29 32	15.84	27	4.82	22 57
15.84	10	91.24	12 40	14.65	19	3.33	12 18	15.36	34	16.48	12 33	15.36	10	91.17	23 31	14.43	28	4.83	22 23
15.36	14	91.86	12 08	12.65	19	3.36	17 42	15.84	35	16.68	10 39	15.84	10	91.19	23 45	15.84	28	4.87	26 25
14.65	14	91.86	18 33	15.01	20	3.45	16 47	15.65	35	16.77	12 18	14.95	10	91.27	24 49	13.72	29	5.02	27 03
15.01	15	92.09	15 21	15.65	21	3.75	11 50	14.28	39	17.45	17 09	15.84	12	91.50	27 38	15.84	32	5.60	27 16
15.50	20	92.88	13 31	15.50	32	5.72	18 19	14.95	41	17.75	14 06	13.92	12	91.62	28 11	14.88	33	5.82	20 25
14.38	20	93.02	15 29	15.84	36	6.41	15 28	15.50	42	17.99	16 31	12.50	13	91.81	22 07	15.84	34	5.97	22 33

25 prec. + 44 sec. + 1′ 40″.

18^{h} Area 38. $+45^{\circ}$

551—570				571—590				591—610				611—618							
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′				
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″				
14.14	46 35	6.16	26 28	15.01	47 3	11.13	22 01	15.84	47 31	15.89	27 06	15.36	47 56	20.39	23 54				
15.50	35	6.22	21 41	14.43	4	11.20	24 00	15.84	32	16.18	21 42	13.36	56	20.44	24 11				
15.84	36	6.23	21 54	13.39	6	11.59	25 58	15.50	34	16.54	22 00	12.90	56	20.45	29 31				
14.05	37	6.45	23 02	15.84	7	11.72	23 59	15.84	35	16.71	25 27	15.01	48 0	21.02	27 46				
12.96	39	6.85	29 11	15.84	7	11.80	29 23	15.84	36	16.77	27 53	15.28	1	21.27	22 01				
15.84	39	6.92	29 35	13.84	10	12.25	25 13	15.84	39	17.33	28 12	14.82	1	21.28	26 55				
14.70	45	7.86	20 17	14.82	11	12.41	23 02	12.65	41	17.65	23 36	15.14	3	21.56	21 20				
15.84	46	8.10	27 04	14.65	11	12.46	23 50	15.84	41	17.75	28 51	15.50	4	21.73	20 52				
13.46	46	8.16	21 39	12.22	12	12.70	24 07	14.14	41	17.78	26 35								
15.65	47	8.21	26 17	10.04	13	12.75	21 26	15.50	43	18.07	24 38								
14.14	47	8.31	28 44	15.84	13	12.88	28 31	15.50	44	18.23	28 14								
15.01	51	9.03	27 07	14.65	14	13.00	25 24	15.50	46	18.52	24 40								
15.84	52	9.06	28 01	14.43	16	13.40	27 23	13.97	46	18.68	23 28								
15.84	52	9.12	27 43	15.01	17	13.59	23 59	15.01	47	18.75	21 59								
14.70	55	9.71	25 46	12.22	18	13.77	28 40	15.01	51	19.45	24 56								
15.84	57	9.96	27 45	14.82	21	14.26	26 45	13.29	51	19.56	27 40								
13.64	58	10.10	25 38	14.23	25	14.87	20 10	13.64	53	19.77	27 31								
12.36	59	10.40	24 54	13.19	25	14.96	26 09	12.90	54	19.94	25 27								
14.53	59	10.41	25 26	12.80	29	15.55	24 34	15.50	55	20.17	25 10								
12.86	47 0	10.51	20 04	13.97	29	15.68	28 05	13.12	56	20.33	28 23								

25 prec. + 44 sec. + 1′ 43″.

19^{h} Area 39. Centre for 1900: $19^{h}\ 47^{m} + 44^{\circ}\ 50'$. $+44^{\circ}$

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
10.40	44 57	78.05	36 43	15.09	45 8	80.02	36 19	11.01	45 22	82.62	31 36	13.59	45 36	85.03	30 31	15.03	45 46	86.87	36 42
15.13	57	78.05	36 52	15.13	10	80.45	38 12	14.46	24	82.88	30 10	15.03	36	85.05	39 56	14.55	46	86.88	37 14
14.65	58	78.25	38 50	15.03	10	80.50	39 05	15.29	24	82.98	31 23	15.92	36	85.14	37 42	15.29	47	87.02	38 13
15.92	59	78.52	33 49	15.58	11	80.54	35 32	15.92	25	83.16	37 12	14.55	37	85.19	36 56	14.69	47	87.08	39 10
14.93	45 0	78.65	38 28	15.92	11	80.62	31 28	14.55	25	83.17	31 58	15.73	38	85.42	39 01	14.23	48	87.16	36 07
15.19	0	78.65	37 22	14.93	12	80.77	32 53	14.93	26	83.24	31 14	15.29	39	85.62	32 01	15.58	49	87.30	30 35
12.87	1	78.75	32 50	15.41	14	81.18	37 52	15.58	28	83.53	37 03	14.65	39	85.64	39 52	15.92	50	87.49	39 33
15.52	1	78.82	39 59	14.46	16	81.48	37 57	15.92	28	83.68	37 14	15.92	39	85.66	36 22	15.19	50	87.53	38 39
13.97	2	78.98	35 53	15.03	16	81.53	30 33	15.13	29	83.73	37 25	14.41	41	85.90	36 20	14.79	51	87.72	31 47
15.03	2	79.04	32 36	15.29	17	81.64	30 54	15.92	29	83.79	38 53	15.13	41	85.96	33 55	14.79	51	87.74	34 03
15.92	3	79.23	35 12	15.13	17	81.73	32 26	15.73	29	83.83	32 55	12.87	41	85.96	37 13	14.55	53	87.99	31 03
13.46	5	79.52	33 36	14.93	18	81.84	30 32	14.32	30	84.00	31 34	15.03	42	86.03	35 44	15.03	53	88.02	37 40
9.36	5	79.52	39 13	15.92	18	81.93	35 11	13.55	31	84.08	30 58	14.65	42	86.03	32 33	15.03	53	88.05	33 35
15.58	5	79.55	31 47	15.13	19	81.95	35 43	11.42	31	84.10	36 13	15.92	42	86.15	35 55	14.23	53	88.05	36 18
15.92	6	79.71	32 49	15.92	19	81.99	38 10	14.41	32	84.26	39 08	14.79	43	86.27	39 16	11.51	53	88.07	30 43
14.79	7	79.87	36 24	15.92	19	82.05	33 04	15.13	32	84.28	38 59	15.92	43	86.37	38 51	11.45	53	88.08	36 27
15.58	7	79.93	32 39	14.93	20	82.24	34 06	15.92	32	84.29	33 23	15.13	44	86.42	36 00	14.55	55	88.35	38 52
14.10	7	79.93	33 36	15.92	21	82.37	32 30	15.19	33	84.56	39 39	9.26	44	86.53	37 21	15.46	55	88.42	35 41
15.73	7	79.93	36 05	15.92	22	82.53	36 37	15.58	34	84.68	31 55	15.03	46	86.75	33 53	15.92	55	88.45	39 22
15.92	8	79.99	38 05	15.92	22	82.59	35 44	12.32	35	84.83	39 58	15.73	46	86.86	39 08	15.03	56	88.70	36 00

25 prec. + 47 sec. + 3′ 43″.

Area 39.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.58	45 58	88.95	30 17	15.41	46 28	94.38	35 23	14.23	47 1	0.18	31 47	15.29	47 36	6.35	35 56	15.92	48 6	11.84	36 52
15.73	58	89.02	35 37	14.69	29	94.41	36 10	14.46	2	0.28	38 45	15.19	36	6.37	35 18	15.29	9	12.22	30 38
15.35	59	89.10	39 59	15.13	30	94.68	34 15	11.17	2	0.28	31 39	15.03	36	6.40	37 13	15.92	9	12.28	31 38
15.92	46 0	89.39	31 53	10.81	30	94.72	35 30	14.79	2	0.42	33 16	15.19	37	6.55	35 10	14.79	9	12.31	33 04
15.92	0	89.41	31 07	12.87	31	94.77	33 39	15.58	2	0.45	38 29	15.92	40	7.07	32 56	14.10	9	12.32	36 22
15.19	1	89.47	36 31	15.92	31	94.91	34 28	15.92	3	0.54	35 34	14.55	40	7.10	38 41	15.13	10	12.41	38 52
15.19	1	89.48	37 34	15.73	32	94.95	36 59	15.92	4	0.67	32 35	15.41	40	7.16	36 00	13.34	10	12.44	34 19
12.32	3	89.78	35 27	14.93	32	95.07	37 23	15.03	4	0.67	35 01	15.58	41	7.24	34 29	15.03	10	12.45	35 02
14.41	3	89.81	33 04	14.32	34	95.29	34 52	14.32	6	1.03	39 03	14.41	42	7.39	34 45	13.76	11	12.58	34 32
12.68	3	89.81	32 38	15.19	34	95.37	37 12	15.46	6	1.15	37 43	15.41	42	7.52	36 45	15.92	11	12.70	34 08
14.10	3	89.85	36 30	14.32	34	95.38	36 33	15.29	7	1.28	38 32	15.92	43	7.60	37 21	14.55	12	12.87	33 25
15.03	3	89.93	31 49	15.03	35	95.59	32 14	14.55	9	1.58	37 43	15.92	43	7.73	33 59	14.93	13	13.04	34 03
15.29	4	90.00	34 25	15.13	36	95.69	32 16	14.79	10	1.69	31 41	14.41	44	7.77	33 26	14.32	13	13.04	36 38
15.41	4	90.00	35 23	15.92	38	95.99	38 58	15.41	11	1.93	35 25	15.13	44	7.91	35 16	15.41	13	13.05	36 51
13.67	4	90.01	38 15	15.92	39	96.19	33 27	15.92	12	2.11	31 24	14.65	45	8.02	39 18	12.32	14	13.22	35 48
14.79	5	90.14	31 01	14.69	40	96.39	38 20	15.13	14	2.54	32 16	15.92	45	8.05	36 38	15.58	14	13.29	39 58
13.67	5	90.27	35 34	14.10	40	96.50	32 23	14.65	16	2.77	31 15	15.03	46	8.15	34 28	15.29	16	13.52	36 47
15.92	7	90.61	30 04	14.69	41	96.59	32 53	14.69	16	2.77	38 52	15.92	46	8.17	30 28	14.55	17	13.71	34 08
13.80	9	90.96	34 36	14.79	41	96.59	30 14	15.92	16	2.80	35 16	15.29	47	8.37	35 35	15.92	18	13.87	32 36
15.92	9	91.00	32 27	14.79	41	96.64	38 17	12.87	16	2.91	37 35	15.92	48	8.54	35 54	15.92	19	13.99	37 35
11.65	10	91.08	39 18	15.92	42	96.79	38 58	15.73	17	3.03	38 51	15.41	48	8.62	32 02	14.41	19	14.02	36 44
15.92	10	91.17	34 46	14.10	43	96.99	39 12	15.92	18	3.12	35 02	14.19	49	8.64	30 13	14.65	19	14.03	36 09
15.03	11	91.32	35 53	13.76	43	97.01	31 33	10.40	18	3.24	32 09	15.73	49	8.65	39 30	14.93	19	14.13	34 13
15.92	12	91.44	35 24	15.46	44	97.13	36 08	15.29	18	3.27	30 15	11.58	49	8.74	36 05	15.73	21	14.35	31 08
13.26	12	91.51	33 26	15.41	44	97.19	39 36	13.34	19	3.31	36 43	15.92	50	8.84	33 29	14.93	21	14.40	36 03
14.10	13	91.60	38 21	12.87	44	97.21	38 48	15.92	19	3.35	34 10	15.58	51	9.01	39 45	15.19	22	14.60	30 06
14.79	13	91.61	30 30	13.93	44	97.23	39 46	15.19	19	3.40	37 14	15.03	51	9.04	39 11	14.93	22	14.64	32 34
14.41	13	91.61	37 57	14.23	45	97.29	30 49	15.92	21	3.73	37 17	14.01	52	9.22	35 02	15.03	22	14.69	37 42
14.89	15	91.91	31 36	14.79	45	97.36	36 22	14.79	21	3.77	39 40	15.92	53	9.43	39 04	12.99	23	14.81	36 40
14.19	15	92.02	36 22	15.92	45	97.37	34 24	15.03	22	3.87	31 34	11.80	53	9.45	31 46	15.92	24	14.89	39 57
15.92	16	92.13	37 29	15.19	46	97.52	30 33	15.58	22	3.97	31 31	14.46	53	9.46	38 48	15.92	24	15.01	34 56
15.46	18	92.51	35 13	15.58	46	97.59	38 55	15.41	24	4.26	34 04	15.58	53	9.50	37 14	15.73	24	15.03	33 55
15.13	18	92.58	38 05	14.65	47	97.75	30 54	15.92	24	4.34	35 31	15.19	54	9.62	38 23	12.87	25	15.12	37 57
14.65	19	92.77	30 47	15.03	48	97.78	37 22	14.93	25	4.47	34 54	12.14	57	10.14	39 48	13.46	25	15.19	35 12
15.92	19	92.78	34 34	15.92	48	97.91	38 08	15.73	26	4.66	32 44	14.46	59	10.54	35 13	15.46	25	15.20	39 16
15.92	20	92.90	35 04	15.29	48	97.94	33 45	15.19	27	4.86	38 06	15.13	48 0	10.62	39 52	14.69	28	15.67	33 42
12.14	21	93.00	30 42	15.03	49	98.09	38 49	15.19	28	5.03	35 18	15.92	0	10.68	39 21	15.29	30	15.93	36 14
15.92	21	93.13	38 14	14.10	50	98.26	38 15	14.46	28	5.05	31 54	15.92	1	10.79	36 40	14.93	30	16.02	35 25
15.92	22	93.15	38 01	14.65	52	98.49	36 24	15.92	29	5.13	38 38	15.92	1	10.90	34 54	14.89	30	16.09	34 29
15.29	22	93.17	31 52	11.52	52	98.49	32 31	14.93	29	5.13	31 34	14.46	2	10.96	39 28	15.29	30	16.09	34 07
15.92	22	93.23	32 52	13.18	53	98.68	36 13	14.65	30	5.25	34 40	12.50	2	11.08	36 46	14.23	31	16.12	37 54
15.73	22	93.30	36 44	14.46	53	98.78	36 16	14.23	30	5.29	38 49	15.29	3	11.19	35 38	15.19	31	16.18	37 40
15.92	23	93.40	31 57	13.84	55	99.07	39 56	15.03	30	5.39	31 35	14.69	4	11.31	36 04	15.19	32	16.37	36 44
15.58	25	93.85	32 16	15.92	55	99.17	33 56	14.69	32	5.76	37 21	15.92	4	11.33	38 15	15.46	32	16.41	32 37
15.58	26	93.90	30 00	14.93	56	99.35	38 06	14.41	33	5.83	38 59	14.89	4	11.36	30 07	15.03	32	16.45	34 00
13.55	26	93.90	30 45	14.01	56	99.38	33 49	10.40	33	5.94	31 57	15.73	5	11.49	30 33	15.46	33	16.51	33 19
15.92	27	94.13	36 53	14.55	57	99.45	39 14	15.92	34	6.13	35 19	13.14	5	11.58	36 12	15.92	33	16.54	39 59
14.79	27	94.20	36 14	15.92	58	99.64	34 59	14.93	35	6.16	35 34	14.55	6	11.69	38 21	15.92	34	16.70	33 02
15.03	28	94.26	35 20	14.10	58	99.73	35 10	15.92	35	6.23	39 21	14.19	6	11.83	30 48	15.92	35	16.89	32 30
14.55	28	94.28	36 33	14.89	47 0	0.09	38 11	15.92	35	6.30	33 44	15.19	6	11.84	32 57	14.10	35	16.92	30 24

25 prec. + 47 sec. + 3′ 46″.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.55	48 35	16.95	30 55	15.03	45 15	81.33	40 49	15.92	45 42	86.13	42 22	14.46	46 10	91.11	44 32	15.13	46 41	96.60	41 33
15.19	35	16.98	37 20	15.19	15	81.35	47 53	15.46	42	86.13	48 07	15.58	11	91.30	48 45	14.93	41	96.65	47 05
15.92	36	17.02	31 03	15.92	16	81.53	46 08	15.19	42	86.18	43 42	14.89	12	91.47	46 38	14.32	41	96.65	47 49
15.29	36	17.06	38 54	15.58	16	81.53	47 19	12.14	43	86.31	43 01	15.19	13	91.66	48 18	15.73	42	96.82	46 41
15.92	36	17.13	38 00	11.36	16	81.56	41 58	12.43	43	86.40	49 50	15.29	13	91.73	41 53	15.03	42	96.88	41 42
15.03	37	17.22	32 16	14.32	16	81.61	40 53	15.92	43	86.40	44 33	15.64	14	91.75	40 24	14.93	43	96.90	49 01
14.79	38	17.48	33 17	15.03	17	81.68	48 00	15.92	44	86.47	47 23	15.58	14	91.78	48 53	14.93	43	97.00	42 57
15.92	38	17.51	38 07	15.92	18	81.85	45 01	14.65	44	86.54	40 04	14.93	14	91.89	40 49	15.13	43	97.04	44 26
14.32	39	17.58	31 51	15.92	18	81.87	43 59	15.92	44	86.54	47 10	15.58	15	92.02	48 38	15.58	43	97.06	40 27
14.93	39	17.58	36 31	12.68	18	81.90	44 25	8.96	45	86.69	43 10	11.05*	15	92.02	49 05	15.73	45	97.38	40 19
15.03	39	17.62	38 30	14.41	18	81.92	43 25	14.65	45	86.73	44 50	15.58	17	92.36	44 57	15.92	46	97.49	43 04
15.92	40	17.72	34 35	14.65	19	81.99	47 41	15.19	45	86.74	48 33	14.55	17	92.37	41 24	14.69	46	97.51	45 03
15.58	40	17.76	38 30	15.92	19	82.13	48 56	12.68	45	86.74	42 38	12.32	18	92.50	44 45	14.32	46	97.58	46 09
12.14	41	17.94	31 59	15.92	19	82.14	43 33	15.19	46	86.80	44 20	15.03	18	92.52	41 06	14.46	47	97.70	41 16
15.88	44 58	78.35	46 05	14.55	20	82.19	41 52	14.89	48	87.23	42 41	15.73	18	92.61	47 41	15.58	48	97.79	44 25
14.79	58	78.35	48 23	13.18	21	82.47	47 08	15.03	49	87.43	48 04	15.19	18	92.61	43 52	15.46	48	97.81	43 13
15.29	59	78.54	46 05	15.73	23	82.74	45 33	15.73	49	87.44	49 59	14.10	21	93.10	41 25	15.19	49	98.10	40 51
15.29	59	78.55	49 48	13.97	23	82.75	44 33	15.13	50	87.48	44 31	14.79	21	93.11	49 02	14.23	50	98.23	47 05
15.73	59	78.56	47 29	15.92	23	82.80	47 43	14.93	50	87.61	43 51	15.13	22	93.26	42 04	14.19	50	98.24	41 01
15.29	45 0	78.64	44 49	15.92	23	82.84	42 51	14.79	51	87.77	45 41	15.92	22	93.31	41 17	14.46	51	98.38	48 45
15.46	0	78.72	48 27	15.03	23	82.85	46 26	14.46	51	87.81	42 36	14.93	23	93.44	45 01	13.18	52	98.54	40 28
14.79	1	78.92	41 53	15.13	24	82.90	48 18	15.13	53	88.03	43 27	15.03	24	93.55	48 04	14.79	53	98.75	48 12
15.19	1	78.95	46 27	14.32	25	83.07	47 29	15.73	53	88.07	44 16	15.73	25	93.81	48 18	15.13	54	98.87	44 07
15.92	2	79.00	41 22	15.03	25	83.07	48 38	15.10	54	88.33	41 03	15.58	26	93.89	47 28	13.88	54	98.89	41 03
14.93	2	79.11	45 46	15.92	27	83.44	48 41	14.55	55	88.46	43 32	15.92	26	93.94	40 12	14.46	54	98.98	40 47
15.92	4	79.35	42 24	15.03	27	83.46	44 39	15.41	55	88.54	46 56	14.65	27	94.13	46 04	15.29	54	98.98	48 27
15.92	5	79.55	42 25	15.92	27	83.47	45 23	13.06	56	88.71	42 18	14.89	28	94.23	44 25	13.06	55	99.06	48 42
14.65	5	79.60	47 16	15.92	27	83.55	46 14	14.89	57	88.74	44 02	15.19	28	94.38	45 39	14.65	58	99.58	41 37
15.92	5	79.61	45 40	15.92	27	83.56	42 22	13.97	57	88.88	48 00	15.03	29	94.45	41 04	15.64	58	99.60	40 01
15.03	5	79.65	44 47	15.92	29	83.81	49 38	15.92	58	88.98	43 06	15.13	30	94.63	47 58	15.29	59	99.76	42 23
15.03	6	79.72	45 13	14.69	31	84.25	46 53	14.41	59	89.23	49 14	15.58	30	94.67	45 02	14.46	59	99.82	49 01
15.19	6	79.72	43 02	15.19	31	84.27	45 15	14.89	46 0	89.34	47 44	15.58	31	94.91	44 07	14.69	59	99.88	49 31
11.27	6	79.76	44 56	15.13	32	84.31	40 34	15.92	0	89.44	48 33	11.29	32	95.10	46 20	14.89	47 0	99.97	42 13
15.73	6	79.85	43 11	14.46	32	84.38	42 51	13.88	1	89.51	44 11	14.46	32	95.11	43 24	15.92	0	0.05	42 01
14.69	7	79.90	43 44	13.76	32	84.41	48 56	14.89	1	89.55	43 41	15.58	33	95.17	44 06	15.92	1	0.17	46 27
11.80	7	80.01	40 24	12.87	33	84.56	43 33	15.92	2	89.66	42 10	14.79	34	95.30	43 20	15.19	2	0.43	41 31
15.29	8	80.13	43 41	15.13	33	84.63	48 19	15.73	2	89.69	49 01	14.69	34	95.33	43 33	15.03	3	0.48	40 56
14.79	8	80.13	44 56	14.32	34	84.64	45 11	15.03	3	89.83	41 23	14.69	35	95.50	42 05	15.92	3	0.56	47 47
15.29	9	80.27	43 55	15.46	34	84.66	43 42	14.93	3	89.93	45 22	14.69	35	95.51	41 16	15.29	4	0.68	42 10
15.73	9	80.35	40 20	13.46	35	84.84	43 36	15.92	5	90.17	43 44	14.93	35	95.54	45 34	14.79	4	0.73	46 30
12.61	9	80.36	47 11	11.25	35	84.85	40 30	13.18	5	90.24	43 02	14.89	35	95.60	47 03	15.73	5	0.85	45 09
15.46	11	80.63	44 35	11.34	36	85.14	45 54	15.92	5	90.30	44 28	14.89	36	95.69	42 01	13.97	5	0.88	42 29
15.13	11	80.63	49 42	15.73	37	85.28	46 05	12.50	8	90.71	42 00	15.19	37	95.88	40 58	14.19	5	0.94	47 58
15.19	12	80.81	41 20	14.84	37	85.28	40 06	15.92	8	90.74	46 09	15.92	38	96.07	44 11	15.58	7	1.22	43 58
14.46	13	80.94	47 39	12.87	37	85.30	48 49	15.46	8	90.75	45 50	15.13	38	96.08	43 06	15.03	8	1.35	46 21
15.29	13	80.99	45 10	15.03	39	85.59	46 14	14.55	8	90.79	44 32	15.73	39	96.27	47 35	15.92	8	1.49	45 55
15.03	13	81.05	41 04	13.26	39	85.64	43 05	15.29	9	90.92	43 53	14.55	40	96.37	44 18	13.06	9	1.53	48 56
11.25	14	81.13	43 01	14.89	39	85.66	44 54	15.58	9	91.00	45 05	12.87	40	96.40	44 08	14.65	10	1.75	49 06
14.55	14	81.19	46 30	15.13	40	85.81	41 13	15.24	9	91.00	40 20	12.14	40	96.53	44 28	14.89	10	1.77	45 20
11.80	15	81.29	41 38	15.92	41	85.94	44 30	15.41	10	91.11	48 34	12.95	41	96.56	44 49	15.03	10	1.77	41 26

25 prec. + 47 sec. + 3′ 44″.

601—650				651—700				701—750				751—800				801—850			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.46	47 10	1.80	44 20	15.19	47 42	7.50	48 04	15.29	48 24	14.87	44 18	15.73	45 10	80.47	54 30	15.03	45 37	85.35	58 46
14.46	10	1.85	40 26	15.13	43	7.72	46 12	15.73	24	14.87	42 43	14.19	10	80.54	57 10	15.03	37	85.37	57 26
10.27	11	2.03	40 14	13.26	45	7.96	49 52	15.92	25	15.10	42 53	15.13	10	80.57	56 00	13.97	39	85.63	54 04
15.46	12	2.18	44 36	14.93	46	8.11	45 24	15.19	25	15.11	41 02	15.58	11	80.67	58 41	15.13	40	85.91	51 00
15.03	13	2.34	45 48	15.46	46	8.19	48 49	11.97:	26	15.26	46 33	15.58	11	80.67	55 06	15.19	42	86.13	53 29
14.93	13	2.36	44 54	15.92	47	8.27	47 59	15.92	27	15.44	48 20	15.73	11	80.71	59 40	13.18	43	86.29	52 42
15.92	14	2.43	41 37	15.13	47	8.29	42 20	15.92	27	15.48	48 43	15.19	12	80.86	58 05	15.92	43	86.41	55 12
13.38	15	2.59	43 51	15.58	47	8.33	45 23	15.41	28	15.66	46 14	14.65	13	81.05	54 20	15.41	43	86.41	56 43
14.55	15	2.62	49 56	14.69	47	8.36	49 24	15.92	29	15.74	46 29	15.41	13	81.12	59 20	11.45	43	86.45	50 50
13.93	17	2.95	40 08	15.92	48	8.48	41 54	15.46	29	15.74	46 31	15.64	14	81.25	50 25	14.93	45	86.63	50 10
10.37*	17	2.97	44 44	14.93	48	8.48	41 39	15.58	30	16.01	40 12	15.92	15	81.36	58 17	15.92	45	86.80	59 32
15.92	17	3.04	40 54	13.06	48	8.61	43 55	15.92	31	16.12	49 21	15.08	15	81.44	50 21	13.46	46	86.84	52 55
15.73	18	3.21	44 26	15.13	49	8.69	41 42	15.19	31	16.20	46 40	15.92	16	81.54	53 08	15.19	46	86.97	59 02
15.73	19	3.41	45 55	14.93	49	8.72	48 30	15.19	32	16.33	44 51	15.92	16	81.62	54 35	14.55	47	87.14	57 26
15.92	20	3.57	46 02	15.92	52	9.16	45 18	14.55	32	16.39	46 19	15.29	17	81.76	52 46	15.41	47	87.14	51 44
15.41	22	3.91	45 40	14.46	53	9.37	46 00	12.14	33	16.53	43 25	14.89	17	81.84	52 52	9.24	48	87.24	50 21
14.55	22	3.91	40 58	15.19	53	9.39	46 52	15.92	34	16.63	49 03	14.89	18	82.01	56 28	11.30*	48	87.33	59 52
15.03	22	3.92	43 37	15.29	54	9.56	48 22	15.92	34	16.71	40 59	15.19	19	82.04	55 49	15.73	49	87.36	53 31
15.29	22	3.97	49 31	15.73	57	10.04	47 37	14.89	35	16.83	46 32	13.88	19	82.13	58 31	14.93	49	87.44	52 39
14.23	23	4.13	45 39	15.92	57	10.08	47 03	15.13	35	16.87	44 25	15.29	19	82.15	52 15	14.55	49	87.49	55 49
15.92	23	4.15	48 01	14.93	57	10.09	45 57	15.19	36	17.07	47 05	15.73	21	82.40	55 40	15.73	50	87.52	54 05
15.92	24	4.29	41 16	15.19	57	10.19	41 40	13.97	36	17.12	41 27	15.46	21	82.40	55 30	15.92	50	87.54	59 28
11.80	25	4.36	45 25	15.13	58	10.39	47 46	15.92	37	17.15	42 44	13.34	21	82.44	53 38	14.79	50	87.66	57 28
14.19	25	4.44	47 57	15.58	48 0	10.57	49 49	15.13	37	17.26	46 40	15.19	21	82.45	58 37	15.92	51	87.74	52 22
15.92	25	4.48	45 14	15.03	1	10.80	48 42	15.03	38	17.46	47 39	13.67	22	82.66	55 10	13.88	51	87.82	55 51
14.93	26	4.58	42 43	15.19	2	11.07	46 37	15.92	39	17.60	46 03	15.92	22	82.66	56 35	14.19	51	87.85	54 09
14.89	26	4.59	41 03	14.74	2	11.08	40 24	14.79	41	17.89	44 38	14.32	22	82.68	55 27	14.93	53	88.16	58 32
15.73	26	4.61	42 26	12.87	3	11.21	46 12	15.41	41	17.93	49 08	14.06	22	82.74	50 12	12.68	55	88.44	54 27
14.65	26	4.66	49 15	15.03	3	11.25	44 07	15.19	41	17.98	42 22	13.46	24	82.97	55 55	13.67	56	88.64	51 20
15.13	27	4.79	46 12	15.41	4	11.45	44 55	14.89	44 56	78.01	52 21	15.03	25	83.10	53 34	15.19	58	89.04	50 32
15.03	28	4.97	40 43	12.50	5	11.50	40 51	14.79	57	78.17	55 42	14.60	25	83.14	50 06	15.92	46 0	89.44	55 24
15.73	30	5.28	44 26	15.13	6	11.70	45 04	15.29	57	78.18	52 03	15.92	25	83.20	50 19	15.92	3	89.96	58 18
15.73	30	5.29	48 47	15.92	6	11.77	48 15	15.41	45 0	78.81	55 47	15.92	26	83.32	56 27	15.46	4	90.00	57 41
11.80	32	5.70	48 16	15.03	7	11.92	49 13	15.29	1	78.98	57 09	15.29	26	83.34	50 57	15.92	4	90.09	56 30
14.55	33	5.81	41 38	15.41	7	11.92	45 16	15.03	1	79.00	59 59	14.98	27	83.52	50 20	15.58	5	90.22	56 35
15.92	33	5.92	47 40	15.73	8	12.09	40 10	15.03	2	79.09	54 15	14.41	28	83.63	58 54	13.42	5	90.23	59 36
15.92	34	5.95	49 36	15.73	9	12.22	48 08	14.79	3	79.23	51 44	13.46	28	83.73	50 52	15.41	5	90.34	57 13
13.97	34	5.97	44 14	14.65	9	12.25	47 46	15.73	3	79.25	54 11	15.29	29	83.81	50 03	15.29	6	90.43	57 01
14.55	37	6.57	44 11	10.51	10	12.41	41 18	14.65	3	79.34	51 23	14.93	29	83.90	50 18	14.89	6	90.47	50 53
15.46	37	6.57	43 10	14.19	12	12.72	42 26	15.92	3	79.36	52 20	15.92	30	84.00	57 22	15.46	6	90.49	56 06
14.79	37	6.62	47 00	15.92	12	12.86	41 39	15.41	3	79.37	56 15	15.03	31	84.25	52 43	14.41	6	90.50	57 18
15.58	38	6.71	49 06	15.92	13	12.88	41 44	15.03	3	79.37	57 09	15.19	32	84.43	56 06	15.92	7	90.58	55 23
14.93	38	6.71	46 32	15.92	13	13.01	41 33	9.46	4	79.40	55 42	14.55	32	84.45	58 28	15.13	8	90.83	58 46
15.73	38	6.82	46 48	15.92	13	13.01	40 38	14.89	4	79.47	53 59	15.29	32	84.49	56 49	15.03	8	90.83	55 37
14.41	39	6.92	48 00	15.29	16	13.44	49 29	15.13	6	79.77	56 23	12.07	33	84.55	59 57	14.93	8	90.87	54 24
14.89	40	7.04	43 21	15.03	16	13.45	41 42	15.73	6	79.82	51 01	14.69	33	84.68	56 24	15.29	9	90.93	54 58
14.46	41	7.26	41 15	15.92	16	13.50	41 02	15.58	7	80.06	58 01	15.92	34	84.73	56 44	15.58	9	91.03	58 27
15.19	41	7.36	41 08	13.97	22	14.53	41 56	10.97	8	80.19	58 51	14.55	34	84.81	55 56	15.03	10	91.17	55 28
15.41	42	7.47	46 43	15.58	23	14.76	47 44	15.52	8	80.26	50 22	15.03	37	85.23	50 53	15.46	12	91.46	57 18
15.19	42	7.49	47 29	15.92	23	14.81	40 30	15.03	9	80.39	59 10	15.13	37	85.31	54 50	15.03	12	91.47	53 52

25 prec. + 47 sec. + 3′ 45″.

851—900				901—950				951—1000				1001—1050				1051—1100			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$\frac{y+50'}{y-10'}$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.79	46 12	91.57	58 27	15.92	46 44	97.12	59 37	15.19	47 14	2.57	53 51	14.55	47 51	8.97	57 01	15.92	48 27	15.43	57 50
13.88	13	91.72	50 38	12.99	44	97.19	57 09	15.92	15	2.59	58 46	14.01	52	9.15	55 31	15.19	28	15.51	57 02
15.92	14	91.90	58 37	15.92	44	97.22	59 48	15.73	15	2.69	55 51	15.29	53	9.35	55 50	15.73	28	15.56	55 48
15.13	15	91.97	58 46	15.19	45	97.29	58 18	15.92	16	2.86	55 00	15.58	54	9.49	50 40	15.92	28	15.61	58 23
15.58	15	91.99	57 40	14.65	45	97.37	54 14	15.19	18	3.13	59 17	15.29	54	9.61	58 54	15.73	30	15.89	51 54
14.55	15	92.05	50 28	13.06	46	97.49	59 04	15.13	19	3.41	51 59	15.92	56	9.89	56 39	15.92	31	16.05	51 04
14.89	15	92.10	52 52	15.41	49	97.97	58 17	15.29	20	3.47	57 03	15.92	57	10.09	54 00	14.23	31	16.19	55 10
14.73	16	92.15	55 09	15.13	49	98.00	55 38	15.41	20	3.56	51 56	15.46	58	10.27	55 56	15.46	32	16.23	57 13
14.89	16	92.19	55 36	15.58	49	98.12	57 57	14.55	21	3.67	58 34	15.92	58	10.30	59 54	15.58	32	16.24	55 59
14.55	16	92.29	53 32	11.06	50	98.17	54 18	13.67	21	3.72	56 07	14.41	58	10.33	52 27	15.13	32	16.35	59 09
14.23	17	92.31	57 57	15.92	50	98.21	53 03	14.55	21	3.75	51 22	13.46	59	10.37	52 54	15.41	32	16.36	56 39
14.46	17	92.32	54 28	15.19	51	98.33	52 10	14.65	22	3.93	51 06	15.46	59	10.45	55 49	13.80	33	16.50	54 42
14.65	17	92.41	54 20	9.02*	51	98.47	53 51	9.62*	23	4.15	51 51	14.01	48 0	10.63	53 02	13.67	33	16.54	57 53
11.10	17	92.42	50 02	14.65	52	98.49	50 13	14.65	24	4.27	53 05	13.18	0	10.63	51 10	15.92	34	16.60	52 48
14.89	18	92.51	58 05	13.26	52	98.49	51 04	15.73	26	4.54	56 09	15.92	1	10.75	56 06	15.92	35	16.74	57 26
14.46	18	92.60	53 43	13.67	53	98.70	53 17	15.92	28	4.90	56 38	15.03	2	11.04	54 29	14.46	37	17.15	57 11
15.73	18	92.62	56 59	15.92	53	98.74	51 59	15.92	28	4.98	59 16	14.79	2	11.06	56 37	15.03	37	17.20	51 23
13.55	18	92.62	51 55	15.41	54	98.90	52 25	15.73	29	5.14	51 53	12.50	3	11.14	58 05	15.73	38	17.34	51 06
15.29	20	92.85	54 38	15.92	54	98.90	53 21	15.03	30	5.40	54 47	15.92	6	11.59	53 37	15.13	38	17.41	50 36
15.92	21	93.06	58 18	12.50	54	99.00	52 15	15.19	32	5.58	58 28	15.58	6	11.70	51 40	15.92	38	17.41	53 50
15.92	21	93.08	57 16	15.92	55	99.16	51 09	15.92	33	5.76	52 34	15.92	7	11.94	51 42	15.13	38	17.42	54 39
15.58	22	93.27	56 49	15.46	55	99.18	52 16	14.65	33	5.92	59 07	15.92	8	12.01	51 52	15.92	39	17.49	54 01
15.19	22	93.33	59 52	14.89	56	99.22	54 37	15.41	34	5.96	59 23	15.19	9	12.19	52 06	15.92	39	17.54	56 00
14.32	23	93.52	57 12	14.93	56	99.30	53 12	15.03	34	5.98	52 30	14.32	10	12.36	56 40	15.92	39	17.58	58 24
14.19	24	93.62	56 14	15.73	57	99.54	55 16	15.58	34	6.10	56 08	15.08	11	12.60	59 39	15.92	40	17.71	58 07
14.46	24	93.62	51 12	15.03	58	99.61	56 31	14.69	36	6.32	59 05	15.58	11	12.60	58 24	15.92	40	17.74	52 31
15.13	25	93.72	50 39	15.19	58	99.68	58 04	13.26	36	6.34	56 21	14.79	11	12.65	50 10	15.19	41	17.94	58 07
15.03	26	94.06	59 24	15.19	58	99.68	55 47	15.92	38	6.64	56 59	15.73	13	12.86	58 24	14.69	42	18.00	59 27
15.92	27	94.23	55 05	15.29	59	99.79	54 10	15.92	38	6.68	55 36	14.89	13	12.96	51 02	14.79	44 56	78.02	0 57
15.92	29	94.52	56 34	14.55	47 0	99.96	52 04	15.41	38	6.76	51 09	14.89	14	13.07	55 33	15.73	56	78.06	6 45
15.92	29	94.52	50 49	14.69	0	99.98	51 11	15.92	39	6.95	57 38	15.92	14	13.18	59 48	10.41	58	78.47	6 40
15.92	29	94.58	56 12	15.73	1	0.10	52 54	15.13	40	7.15	57 08	15.29	15	13.22	53 41	15.13	59	78.71	6 37
15.41	30	94.60	50 31	15.73	1	0.15	55 19	11.80	41	7.18	56 42	14.93	18	13.79	54 04	15.58	59	78.72	2 01
15.46	30	94.75	55 44	14.46	1	0.18	54 29	14.19	41	7.25	51 52	15.92	18	13.90	56 38	14.23	45 0	78.76	1 10
14.19	31	94.84	59 28	15.92	1	0.20	55 57	13.46	41	7.28	58 00	15.58	20	14.16	50 24	15.92	0	78.88	8 24
15.46	32	95.08	54 59	15.46	1	0.26	52 20	15.19	42	7.51	57 21	15.92	21	14.26	52 32	14.65	1	78.93	5 43
15.03	32	95.10	51 37	15.13	2	0.40	55 39	15.24	43	7.57	50 18	12.87	21	14.31	55 12	15.03	1	78.96	9 22
15.13	33	95.30	57 51	14.93	3	0.56	52 51	15.29	43	7.63	51 09	13.80	21	14.35	55 23	12.32	1	79.06	1 26
14.89	34	95.48	50 34	15.92	4	0.68	55 03	15.03	45	7.97	55 58	12.50	21	14.39	59 20	15.41	1	79.07	3 56
15.73	35	95.65	57 21	13.46	4	0.76	56 31	14.55	46	8.05	53 30	15.03	21	14.42	54 54	13.06	2	79.22	3 14
14.46	36	95.75	59 49	15.46	5	0.94	54 25	15.35	46	8.10	50 05	14.93	22	14.45	55 41	14.46	2	79.25	5 54
15.73	37	95.87	58 35	15.73	6	1.11	56 27	14.69	46	8.13	54 17	13.80	22	14.45	57 21	15.73	3	79.36	3 57
14.79	37	95.95	56 47	14.10	7	1.20	55 10	15.92	46	8.17	50 02	15.73	22	14.53	57 01	15.92	5	79.64	2 03
14.55	38	96.09	52 16	15.92	7	1.28	59 01	11.12	46	8.19	50 34	14.41	23	14.69	56 49	14.55	5	79.67	6 43
14.74	39	96.30	59 49	14.01	8	1.44	59 26	14.89	47	8.35	54 30	14.10	23	14.69	52 11	14.65	5	79.72	9 32
15.92	40	96.41	55 21	15.92	10	1.69	58 44	15.73	47	8.38	59 59	15.58	23	14.73	54 44	14.01	5	79.72	7 04
15.58	41	96.58	56 26	15.58	10	1.77	55 38	15.03	48	8.41	55 16	15.19	24	14.87	52 51	14.32	5	79.77	1 10
14.46	41	96.65	54 50	15.92	10	1.79	53 09	14.79	48	8.54	50 17	15.92	24	14.96	58 47	12.87	5	79.77	5 27
14.32	43	96.91	51 04	15.92	12	2.05	57 58	12.32	48	8.54	55 30	14.69	26	15.23	55 33	14.10	5	79.77	8 59
15.41	43	96.99	56 41	15.92	13	2.32	56 20	15.92	49	8.61	59 26	14.79	26	15.25	57 16	15.03	6	79.80	6 05

25 prec. + 47 sec. + 3′ 46″.

1101—1150				1151—1200				1201—1250				1251—1300				1301—1350			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.58	45 7	80.10	8 32	15.19	45 32	84.44	2 33	14.79	46 2	89.70	6 18	14.10	46 32	95.08	4 48	14.46	47 1	0.16	8 36
15.29	8	80.18	8 26	12.68	32	84.51	8 34	14.69	2	89.72	1 49	14.55	32	95.08	7 32	14.41	1	0.22	5 37
15.41	9	80.36	0 32	14.55	35	84.98	3 51	15.92	2	89.85	5 25	14.55	33	95.16	6 45	15.92	2	0.31	3 27
14.89	9	80.38	5 57	15.92	35	84.99	7 44	15.29	6	90.38	0 39	14.65	33	95.20	1 48	15.92	2	0.40	7 20
13.97	10	80.56	7 35	15.92	35	85.04	4 16	14.93	6	90.43	6 33	13.34	34	95.35	0 07	14.46	3	0.46	2 52
15.29	10	80.66	3 01	14.89	36	85.14	5 37	14.79	6	90.48	2 56	13.06	34	95.42	8 18	14.01	3	0.48	1 13
13.80	11	80.72	3 05	15.19	37	85.38	6 58	13.67	6	90.54	7 31	14.46	34	95.46	5 45	15.41	3	0.54	4 09
15.92	12	80.86	1 57	15.19	38	85.55	6 39	15.73	7	90.63	6 27	11.97	35	95.58	2 24	14.23	4	0.61	5 44
15.19	13	81.06	2 27	15.73	38	85.58	3 22	15.29	8	90.75	7 37	15.92	36	95.74	4 46	15.73	4	0.67	4 56
15.03	15	81.46	2 57	15.92	39	85.67	1 54	14.69	8	90.78	5 53	12.68	37	95.91	0 40	15.03	4	0.74	5 54
14.69	15	81.52	2 38	13.06	39	85.68	1 17	15.92	8	90.82	2 09	15.13	37	96.00	9 09	14.89	4	0.78	5 35
15.73	16	81.61	1 24	14.93	41	86.02	5 25	15.19	9	90.94	3 22	14.69	37	96.00	0 57	15.92	5	0.88	8 44
15.73	16	81.64	4 29	15.92	41	86.13	8 15	15.92	9	90.94	1 48	15.92	38	96.10	5 14	15.92	5	0.92	9 02
15.46	16	81.67	1 03	15.19	42	86.19	0 55	11.36	9	91.04	8 39	14.01	38	96.15	3 46	15.92	6	1.00	2 22
15.03	16	81.71	2 48	14.65	42	86.26	1 39	15.92	10	91.13	0 43	15.29	40	96.39	8 50	15.92	6	1.10	2 42
15.92	17	81.88	4 43	13.97	43	86.48	2 17	15.92	10	91.16	5 40	15.92	41	96.60	8 03	15.92	6	1.10	1 46
15.92	18	81.96	4 31	15.92	44	86.50	9 07	14.93	11	91.34	4 28	15.19	42	96.84	7 34	15.03	7	1.20	5 00
15.19	19	82.12	3 06	14.84	45	86.76	0 20	14.89	11	91.43	4 22	15.13	42	96.88	5 12	14.65	7	1.30	8 19
15.46	19	82.14	6 56	13.67	45	86.77	9 14	14.01	12	91.44	7 43	15.92	42	96.90	8 53	13.46	8	1.32	0 41
14.19	19	82.14	5 40	15.29	46	86.90	6 05	14.10	12	91.60	6 00	15.29	43	97.00	8 40	15.19	8	1.42	4 07
13.14	19	82.14	3 26	14.93	46	86.94	2 55	15.19	13	91.63	2 26	15.41	43	97.00	1 45	15.46	8	1.45	1 58
14.93	19	82.20	8 14	15.29	47	87.06	7 43	15.03	13	91.74	8 56	15.92	43	97.08	2 52	15.73	9	1.52	7 14
12.87	19	82.22	9 17	14.23	47	87.10	9 43	14.65	14	91.82	8 31	14.41	44	97.14	7 21	15.03	9	1.60	2 01
15.58	19	82.23	6 55	13.46	47	87.11	5 33	14.93	14	91.91	1 58	15.29?	45	97.29	7 06	14.89	9	1.60	2 36
14.41	19	82.24	4 27	15.03	48	87.21	3 30	15.92	14	91.93	5 33	15.19	45	97.30	9 05	14.46	9	1.63	9 25
14.79	20	82.33	5 10	15.73	48	87.30	6 06	15.29	16	92.22	2 19	15.92	45	97.39	7 19	14.10	10	1.69	3 45
15.41	20	82.36	4 07	14.32	48	87.33	7 43	15.92	18	92.52	8 44	15.92	45	97.40	0 17	15.58	10	1.70	7 12
13.67	20	82.38	1 10	15.03	49	87.41	8 28	15.92	18	92.52	7 48	13.51	47	97.65	0 17	15.29	10	1.74	7 34
14.79	20	82.43	6 17	15.92	49	87.44	7 01	12.14	18	92.56	4 10	15.41	47	97.65	7 34	13.67	10	1.84	6 21
14.79	22	82.72	1 17	12.87	49	87.54	2 02	14.79	19	92.79	0 44	15.03	47	97.76	8 22	15.92	11	1.90	1 53
15.92	23	82.81	8 37	15.92	52	88.04	5 23	15.73	20	92.88	3 16	15.19	47	97.79	4 40	15.03	12	2.09	9 13
15.92	23	82.82	4 52	12.50	52	88.05	1 53	14.23	20	92.89	6 04	14.46	48	97.90	2 26	15.92	12	2.14	5 48
14.01	23	82.86	8 04	15.46	53	88.10	0 08	14.19	20	92.90	4 23	15.03	48	97.94	2 14	15.19	13	2.32	5 36
15.41	24	83.02	1 46	14.23	53	88.24	0 49	15.92	21	93.16	0 59	15.92	50	98.22	7 16	13.26	15	2.64	2 43
15.92	24	83.07	1 58	14.89	55	88.48	9 27	15.92	22	93.32	4 46	15.92	52	98.60	3 57	15.92	15	2.66	2 11
15.29	24	83.08	5 53	14.69	55	88.54	6 06	15.41	22	93.32	9 11	14.46	52	98.67	6 18	15.92	16	2.82	2 37
15.46	25	83.18	2 34	15.73	56	88.64	2 54	14.69	23	93.43	8 07	15.41	53	98.70	3 54	15.92	17	2.96	7 13
15.03	25	83.26	9 46	14.79	56	88.74	3 38	15.92	23	93.44	6 15	15.46	53	98.72	0 50	15.46	18	3.09	6 23
14.65	26	83.36	7 34	15.92	57	88.86	0 36	14.46	23	93.52	5 27	15.92	54	98.94	8 29	14.79	18	3.20	3 40
14.46	27	83.57	4 41	15.92	57	88.88	9 17	15.13	24	93.56	7 34	15.92	54	99.00	8 05	14.79	18	3.25	3 49
15.58	28	83.70	6 17	15.92	57	88.95	1 16	15.41	25	93.78	4 17	13.55	54	99.00	3 49	15.92	20	3.44	4 54
12.14	28	83.85	4 42	15.73	57	88.96	2 13	13.46	25	93.82	9 08	14.01	57	99.48	0 04	15.92	20	3.46	8 53
15.46	29	83.95	9 24	15.41	57	88.96	5 32	14.32	25	93.89	6 17	15.92	57	99.48	0 34	15.41	21	3.66	5 36
14.41	29	83.98	7 33	12.87	57	88.96	3 14	14.41	27	94.18	8 03	15.92	58	99.60	2 32	11.17	21	3.74	8 42
15.58	30	84.03	5 24	15.92	59	89.17	8 18	12.68	28	94.38	8 10	15.92	58	99.67	7 49	15.92	21	3.78	6 06
15.92	30	84.05	3 38	11.48	59	89.28	9 47	15.73	29	94.48	3 51	14.46	58	99.69	9 30	12.68	22	3.96	1 34
15.13	30	84.10	1 28	15.19	46 0	89.44	4 16	12.50	29	94.49	5 52	15.19	59	99.80	4 58	15.73	24	4.16	7 16
15.92	30	84.13	5 40	11.80	1	89.54	7 10	15.92	30	94.72	0 40	15.92	59	99.82	2 15	15.92	24	4.17	2 12
15.92	31	84.24	2 12	15.73	1	89.56	3 57	15.29	32	94.97	3 52	15.29	47 0	0.00	8 13	15.92	24	4.27	5 37
15.13	31	84.26	1 56	14.46	1	89.66	3 22	12.87	32	95.04	4 04	14.93	1	0.14	1 46	14.23	24	4.30	6 00

25 prec. + 47 sec. + 3′ 44″.

19^{h} Area 39. $+45^{\circ}$

1351—1380				1381—1410				1411—1440				1441—1467			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.65	47 25	4.42	0 41	15.92	47 42	7.42	1 25	14.79	48 3	11.05	0 42	15.73	48 21	14.32	4 30
14.65	25	4.45	1 37	13.46	43	7.55	9 17	14.32	4	11.23	1 32	15.13	24	14.74	9 04
15.03	25	4.48	3 26	13.67	43	7.56	0 21	12.87	5	11.48	8 15	15.29	24	14.82	9 54
15.58	26	4.56	2 36	15.92	43	7.58	4 37	15.19	5	11.54	4 26	11.25	24	14.88	0 28
15.46	26	4.68	2 19	15.92	43	7.58	5 40	15.73	6	11.64	3 24	14.79	25	15.02	5 37
15.03	27	4.69	5 00	14.23	44	7.70	4 51	12.87	7	11.76	4 53	15.92	26	15.20	8 41
14.69	29	5.08	0 52	15.73	46	8.15	1 47	14.46	8	12.02	7 15	13.93	27	15.34	0 18
15.58	29	5.17	3 25	15.92	47	8.34	2 55	15.29	8	12.04	8 11	14.19	27	15.41	3 58
15.58	29	5.17	7 58	12.32	48	8.48	1 46	15.29	9	12.16	0 28	15.29	29	15.78	3 10
15.03	30	5.22	8 05	15.92	48	8.52	8 36	12.32	11	12.50	8 08	15.41	30	15.85	5 16
15.41	30	5.30	3 53	14.55	49	8.66	9 43	15.13	11	12.56	3 38	12.68	30	15.86	2 09
12.87	31	5.40	6 20	15.46	49	8.67	1 15	15.58	12	12.64	1 16	15.13	32	16.18	0 10
13.34	32	5.72	3 18	15.92	52	9.09	9 13	15.73	12	12.76	4 14	14.46	32	16.30	6 12
15.73	33	5.85	4 43	15.73	52	9.17	7 13	15.92	13	12.92	7 56	15.03	33	16.36	5 25
15.73	33	5.88	9 59	15.03	53	9.32	7 13	15.92	14	12.99	7 23	14.23	33	16.36	0 40
15.29	34	6.02	0 30	15.13	53	9.35	3 44	14.55	14	13.00	4 50	15.46	33	16.36	0 59
15.29	35	6.10	9 21	15.46	53	9.42	4 33	15.92	14	13.10	3 27	15.92	33	16.39	4 37
12.50	35	6.10	8 59	13.06	54	9.50	8 55	15.92	16	13.44	2 07	15.58	36	16.94	1 57
15.13	35	6.15	2 39	15.19	54	9.62	0 29	15.29	17	13.60	5 25	15.13	37	17.04	3 18
15.92	36	6.28	5 48	13.46	55	9.65	6 44	15.92	17	13.64	0 26	14.89	37	17.08	6 47
15.92	36	6.40	1 07	15.73	55	9.78	1 14	15.92	18	13.75	1 35	14.93	37	17.18	5 40
15.73	37	6.55	3 38	15.92	56	9.79	1 46	15.13	18	13.80	3 26	14.89	38	17.22	1 18
14.46	38	6.64	5 59	14.65	56	9.94	8 20	14.41	18	13.84	0 30	15.46	38	17.29	5 02
15.46	39	6.83	7 45	15.92	58	10.16	0 12	14.69	18	13.84	1 17	14.79	39	17.52	4 57
15.73	39	6.85	2 57	13.80	59	10.44	7 53	14.41	19	13.97	0 17	14.93	40	17.60	9 52
15.19	40	7.12	5 34	15.13	59	10.46	9 03	15.92	19	14.00	3 00	15.73	40	17.70	9 03
15.73	41	7.24	3 53	15.46	59	10.48	5 05	14.01	20	14.13	9 46	15.92	42	17.96	3 20
14.89	41	7.27	2 44	15.73	48 0	10.51	8 34	12.32	20	14.16	9 06				
15.92	42	7.36	7 49	14.01	1	10.82	9 41	15.13	21	14.22	0 22				
15.73	42	7.38	2 33	14.23	2	10.93	3 47	14.79	21	14.22	6 24				

25 prec. + 47 sec. + 3′ 48″.

20^{h} Area 40. Centre for 1900: $20^{h}\,47^{m} + 45^{\circ}\,0'$. $+44^{\circ}$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.42	44 39	75.00	46 35	14.94	44 52	77.25	43 41	15.76	45 7	79.90	48 40	14.64	45 18	81.83	44 07	15.42	45 37	85.19	48 48
15.10	40	75.10	41 12	14.57	52	77.27	40 16	14.20	8	80.06	43 11	15.14	18	81.98	44 59	14.72	39	85.54	46 35
14.94	42	75.54	40 37	15.22	54	77.59	47 08	14.83	8	80.16	42 45	15.76	18	81.98	41 15	11.94	40	85.89	41 19
15.76	44	75.91	49 07	14.33	54	77.60	40 53	14.20	9	80.29	49 42	15.57	19	82.07	49 10	15.76	41	86.01	47 21
15.34	46	76.29	45 51	15.42	55	77.87	48 55	12.40	10	80.46	47 47	15.02	25	83.08	45 20	15.42	42	86.20	48 42
12.09	48	76.55	46 31	14.91	59	78.49	48 32	15.76	10	80.49	42 02	15.76	25	83.11	49 20	14.94	44	86.46	48 59
15.76	49	76.77	49 16	14.57	59	78.50	45 32	15.34	11	80.67	41 22	15.76	30	83.97	45 59	15.76	46	86.94	41 00
15.02	50	76.90	48 07	15.76	59	78.59	42 51	15.42	12	80.74	43 19	13.55	31	84.24	47 30	15.76	47	87.05	47 57
14.75	50	76.95	46 01	14.53	45 2	78.98	42 19	15.76	12	80.77	42 56	15.76	31	84.25	49 32	15.30	48	87.17	41 38
12.56	51	77.10	49 36	15.30	4	79.49	45 11	14.83	13	80.95	49 11	15.57	35	84.97	49 46	15.57	49	87.36	43 32

25 prec. + 52 sec. + 5′ 31″.

Area 40.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$\frac{y+60'}{y+0'}$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.10	45 49	87.46	47 20	13.21	47 42	7.55	48 24	14.33	45 20	82.21	52 36	15.42	46 32	95.06	52 28	14.75	47 32	5.62	58 54
15.76	46 0	89.27	46 31	15.76	48	8.55	42 43	12.89	22	82.60	51 42	15.76	32	95.11	55 31	13.62	33	5.85	58 26
15.14	0	89.28	49 30	15.76	49	8.69	41 27	15.76	23	82.80	59 50	9.53* ✓	33	95.26	58 24	15.76	34	5.98	59 47
13.55	2	89.75	45 57	14.72	50	8.93	48 08	15.76	25	83.14	56 57	15.10	34	95.34	54 34	12.09	36	6.37	50 47
11.18	5	90.31	41 19	9.90	51	9.09	40 13	15.76	25	83.15	57 24	12.09	38	96.09	51 12	14.72	36	6.43	53 56
15.76	8	90.84	48 18	15.76	55	9.77	47 24	15.42	25	83.22	52 08	14.57	38	96.17	51 01	14.72	39	6.83	56 27
14.72	12	91.38	41 40	15.76	55	9.79	46 25	14.33	29	83.83	50 50	15.30	42	96.86	59 35	15.48	42	7.41	59 54
15.76	13	91.60	47 54	13.05	57	10.16	47 33	12.89	29	83.89	57 28	12.95	43	96.98	59 59	15.02	42	7.46	50 38
13.62	13	91.63	48 22	15.76	58	10.36	49 08	14.41	30	84.13	50 29	14.94	48	97.88	51 09	11.39	44	7.76	55 33
12.56	14	91.75	49 52	15.76	59	10.48	47 59	14.08	32	84.40	59 10	15.76	48	97.96	55 06	15.57	44	7.78	51 17
11.65	16	92.12	42 55	14.37	48 2	11.04	46 23	14.37	34	84.72	58 15	15.76	51	98.45	56 44	14.44	44	7.81	59 04
15.14	17	92.33	43 23	13.21	2	11.09	46 58	15.34	36	85.04	55 15	13.90	51	98.48	53 35	12.56	45	7.91	55 49
15.10	20	92.86	45 05	15.76	4	11.37	44 40	14.83	37	85.29	59 47	13.90	52	98.49	53 52	15.76	46	8.18	58 28
12.09	20	92.98	48 51	15.34	9	12.30	49 48	14.20	39	85.65	56 08	15.42	53	98.74	56 18	15.76	53	9.36	53 02
15.02	23	93.43	47 15	12.24	9	12.31	40 05	15.76	42	86.15	56 56	15.76	55	99.08	52 00	9.72 ÷	53	9.39	56 30
15.57	23	93.46	49 18	14.91	10	12.39	44 01	14.16	43	86.34	57 03	11.21*	55	99.19	59 20	15.57	59	10.40	51 08
12.09	28	94.28	49 10	11.13	10	12.45	46 48	15.76	45	86.70	59 56	15.76	58	99.63	53 35	9.60 –	59	10.41	57 53
15.76	32	94.97	41 42	15.76	16	13.47	45 11	15.76	45	86.73	52 01	15.34	47 0	0.00	57 04	15.76	48 0	10.55	53 48
15.30	33	95.14	49 26	14.64	17	13.59	42 19	15.10	48	87.20	58 39	15.76	2	0.44	50 08	15.76	1	10.87	53 41
10.80	34	95.40	46 52	14.57	18	13.85	47 01	15.06	48	87.27	50 11	14.20	3	0.48	55 05	15.76	4	11.34	53 27
12.89	35	95.64	42 25	13.28	44 41	75.44	50 22	15.30	49	87.50	59 13	15.22	3	0.52	59 03	15.57	6	11.64	53 59
15.76	36	95.74	46 10	12.56	43	75.76	52 43	13.38	52	87.92	57 32	15.42	4	0.77	58 36	10.86	7	11.89	55 57
15.76	40	96.52	49 25	15.76?	46	76.25	53 46	15.76	53	88.17	57 23	15.76	5	0.94	57 15	15.76	9	12.21	59 24
15.76	44	97.12	47 28	14.20	47	76.54	50 26	14.72	54	88.32	59 32	12.89	6	1.14	57 38	15.76	10	12.34	50 53
10.65	52	98.52	42 45	14.53	49	76.78	53 01	12.24	56	88.68	52 14	11.94	7	1.16	56 00	14.08	11	12.63	57 46
12.89	52	98.62	42 54	13.21	49	76.82	50 54	15.57	46 0	89.38	56 35	15.57	7	1.30	56 57	14.27	13	12.90	52 56
14.72	55	99.10	42 22	13.55	50	76.91	53 08	14.75	0	89.39	53 45	14.53	9	1.53	55 35	14.33	16	13.44	54 21
15.34	55	99.17	49 40	14.53	50	76.94	59 28	15.34	2	89.81	57 42	15.14	10	1.71	51 19	14.33	17	13.66	52 13
14.64	56	99.22	45 35	15.02	52	77.32	52 34	14.94	3	89.99	59 42	14.83	11	1.90	55 29	14.57	18	13.81	54 18
14.64	56	99.27	48 17	15.76	55	77.93	51 38	15.14	4	90.13	55 06	15.57	12	2.11	55 10	14.83	19	13.96	56 13
13.21	56	99.31	46 01	15.34	55	77.93	55 05	13.62	6	90.49	56 26	15.57	13	2.25	53 09	11.94	20	14.12	54 30
13.38	47 0	0.05	47 36	13.83	56	78.09	58 30	15.76	7	90.66	59 44	11.94	15	2.63	55 22	15.76	20	14.21	50 22
15.76	2	0.40	48 09	15.10	57	78.15	51 45	15.76	8	90.78	52 45	15.76	17	2.97	53 48	9.34	22	14.59	53 51
13.05	10	1.70	48 30	15.34	57	78.31	54 04	14.08	8	90.82	54 38	15.57	18	3.17	51 28	15.76	23	14.64	53 03
15.26	13	2.25	49 59	12.89	58	78.41	55 53	13.15	9	90.97	59 53	13.05	18	3.23	57 51	10.64	23	14.72	54 50
15.34	14	2.52	45 45	13.72	45 0	78.78	59 34	13.38	9	91.03	52 16	14.20	20	3.49	58 59	15.57	23	14.75	57 43
15.42	15	2.66	49 40	15.10	4	79.50	54 48	14.08	10	91.09	52 57	15.10	20	3.53	51 20	13.05	23	14.76	57 51
12.72	18	3.15	41 00	15.76	6	79.81	57 34	13.38 ✓	11	91.37	57 39	15.76	21	3.78	51 14	13.97	24	14.85	55 35
14.83	21	3.79	45 50	13.83	6	79.87	50 51	14.33	12	91.49	56 01	13.62	22	3.91	55 18	15.34	44 39	75.03	8 37
15.76	21	3.79	46 30	15.76	10	80.50	53 31	15.22	14	91.77	53 07	14.83	25	4.40	58 25	15.02	40	75.29	4 34
15.76	23	4.01	47 38	15.42	11	80.72	52 54	14.83	20	92.97	50 59	14.83	26	4.58	54 52	13.31	42	75.60	5 35
15.76	24	4.26	44 22	9.84 –	13	81.00	53 46	13.28 ✓	21	93.10	58 22	14.94	27	4.71	56 36	15.30	46	76.31	8 17
15.02	26	4.64	45 05	13.90	13	81.04	57 21	14.91	23	93.44	53 48	14.94	27	4.71	50 20	15.22	46	76.43	3 10
15.76	26	4.70	41 14	13.90	13	81.06	57 35	14.16	23	93.48	55 28	14.94	27	4.74	59 23	12.56	50	77.05	5 18
13.38	33	5.80	47 08	13.48	13	81.09	50 06	15.57	26	94.06	53 06	14.27	28	4.95	51 48	11.14	53	77.60	1 59
12.56	33	5.92	45 54	14.83	14	81.30	57 21	12.89	28	94.32	50 18	14.75	28	5.04	56 04	15.76	57	78.28	8 40
15.57	34	6.11	49 59	11.40	16	81.67	58 21	11.94	28	94.36	51 15	14.16	29	5.19	56 19	15.76	58	78.39	1 38
14.91	38	6.70	46 43	15.42	17	81.73	51 48	14.33 ✓	30	94.62	57 09	13.21	29	5.19	52 15	15.76	58	78.50	0 12
15.57	39	6.98	49 38	14.33	18	82.02	50 57	12.89 ✓	30	94.71	57 37	14.16	30	5.32	59 01	15.76	59	78.57	8 15
13.79	41	7.23	46 48	10.62	19	82.04	50 44	14.72 ✓	31	94.86	59 52	15.76	31	5.56	54 15	7.9 1)	45 0	78.77	5 01

25 prec. + 52 sec. + 5′ 33″.

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1) Magn. uncertain, extrapolated. Visual magn. Harv. Ann. vol. **54** is 7.5.

20^{h} Area 40. $+45^\circ$

301—350				351—400				401—450				451—500				501—550			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.22	45 1	79.00	0 17	15.02	45 41	86.08	5 40	11.18	46 18	92.55	5 11	12.09	47 24	4.19	6 48	15.76	48 17	13.60	5 13
15.76	3	79.42	6 03	15.76	41	86.12	6 10	15.34	18	92.64	1 44	14.64	26	4.51	2 05	14.75	19	13.87	7 46
12.56	4	79.52	1 51	15.76	43	86.37	3 32	15.02	19	92.73	4 23	14.75	26	4.58	2 23	15.76	19	13.98	4 45
15.76	5	79.73	8 43	15.76	43	86.49	1 13	15.22	20	92.91	4 49	14.27	27	4.70	9 09	15.76	21	14.27	0 43
14.64	6	79.92	6 57	13.21	44	86.57	7 09	15.10	20	92.94	2 20	15.02	27	4.77	1 18	15.57	21	14.34	0 07
11.94	7	79.98	1 22	13.21	44	86.67	6 30	12.89	21	93.05	7 27	15.76	27	4.79	5 39	15.14	24	14.78	2 52
11.22	7	80.00	0 20	10.45	44	86.67	2 24	14.64	22	93.23	7 12	15.76	28	4.94	3 25	14.44	24	14.90	0 55
15.76	8	80.26	7 52	15.42	48	87.25	8 23	15.57	22	93.36	4 03	15.76	30	5.21	3 27	15.22	25	14.96	8 13
12.56	8	80.31	0 16	12.72	48	87.31	9 08	15.42	24	93.57	1 59	14.27	31	5.44	5 00	15.76	44 38	75.01	19 39
13.05	10	80.55	2 57	14.64	48	87.34	7 48	14.01	25	93.79	3 03	15.76	35	6.17	6 12	12.56	39	75.20	18 19
15.76	11	80.80	0 16	15.76	50	87.61	9 02	15.34	25	93.82	0 37	15.76	35	6.21	6 24	15.02	39	75.23	14 02
14.01	12	80.93	7 23	15.42	50	87.65	3 21	14.53	26	94.05	5 04	15.76	35	6.24	4 57	14.72	40	75.30	17 48
15.76	13	81.09	9 33	14.94	51	87.84	9 28	14.83	27	94.15	9 58	14.01	36	6.30	8 23	13.90	40	75.38	11 14
15.30	14	81.21	5 33	15.76	52	88.01	1 00	14.57	29	94.56	0 08	15.76	37	6.54	8 17	14.83	41	75.56	17 41
15.34	14	81.37	9 31	15.02	53	88.10	4 38	15.57	31	94.90	2 19	15.76	39	6.86	9 21	15.76	42	75.68	15 35
13.72	16	81.56	5 06	10.63*	53	88.10	0 26	15.57	31	94.92	9 31	13.05	40	6.98	6 24	12.24	42	75.77	17 16
13.83	16	81.64	2 25	15.76	54	88.33	6 54	11.94	34	95.37	7 07	13.90	40	7.12	9 32	15.76	43	75.94	18 32
15.34	16	81.64	7 41	15.76	56	88.62	5 30	15.34	36	95.75	9 28	15.26	41	7.28	0 12	15.34	44	76.10	14 05
15.76	17	81.84	1 56	15.76	56	88.76	6 36	14.37	40	96.54	7 03	15.42	42	7.33	1 47	15.57	46	76.45	17 29
14.75	19	82.18	7 40	13.05	57	88.83	9 29	11.46	40	96.54	6 20	13.38	42	7.37	7 05	15.76	46	76.46	15 51
15.76	19	82.24	8 20	15.76	58	89.05	4 34	11.94	42	96.83	7 35	15.76	47	8.27	7 55	11.79	46	76.48	16 54
15.57	20	82.33	5 11	15.57	46 0	89.36	4 10	15.76	48	97.97	2 48	15.57	47	8.31	7 02	15.22	47	76.56	19 16
11.79	22	82.63	7 25	15.14	0	89.47	7 50	15.76	51	98.35	0 12	15.10	48	8.54	5 40	15.76	49	76.91	19 31
12.24	22	82.69	1 03	15.76	1	89.53	4 41	15.76	51	98.41	2 49	15.30	49	8.63	5 13	15.76	49	77.01	18 58
15.57	24	82.97	8 28	15.76	2	89.68	9 15	12.72	54	98.90	2 33	12.72	50	8.81	9 15	15.76	50	77.10	14 48
15.02	24	82.98	2 23	15.57	2	89.76	5 23	15.76	55	99.10	1 26	14.64	50	8.87	5 43	15.76	50	77.20	15 43
13.97	27	83.55	6 58	15.76	2	89.83	5 07	15.76	56	99.28	8 58	14.08	50	8.90	9 19	15.76	51	77.27	11 02
15.76	28	83.78	8 02	14.91	3	89.86	4 06	12.56	58	99.73	9 24	15.14	51	8.92	3 48	13.21	52	77.38	11 21
14.75	28	83.78	6 13	15.76	3	89.86	7 03	15.76	59	99.79	3 26	15.30	51	8.98	2 17	11.94	52	77.42	14 28
14.53	29	83.89	2 34	13.55	3	89.90	8 42	14.91	47 2	0.39	5 25	12.89	53	9.40	9 28	15.76	53	77.59	19 09
13.38	29	83.93	6 02	12.09	3	89.95	2 01	14.91	3	0.53	6 00	15.76	54	9.52	6 57	15.76	53	77.66	16 24
15.76	30	84.06	7 42	13.83	3	89.95	7 41	15.57	3	0.54	6 11	15.14	55	9.64	6 03	15.76	54	77.85	13 21
13.31	30	84.15	7 01	13.21	5	90.25	5 50	15.42	5	0.86	3 22	15.42	55	9.64	9 06	14.33	56	78.09	11 22
15.76	31	84.34	9 46	15.14	6	90.52	7 41	15.02	6	1.08	5 41	13.55	56	9.97	7 00	15.42	56	78.12	19 56
15.02	32	84.38	6 40	13.97	6	90.53	1 53	15.76	7	1.20	1 36	15.76	57	10.07	3 40	15.57	56	78.21	11 00
12.89	33	84.57	2 13	15.42	7	90.59	0 12	15.76	7	1.31	7 57	15.76	57	10.07	3 04	15.76	56	78.24	11 40
12.24	33	84.58	2 50	15.76	7	90.60	1 36	15.76	8	1.41	0 58	14.64	59	10.40	3 54	11.94	57	78.27	16 38
14.57	33	84.72	2 21	15.76	9	90.93	2 52	15.76	9	1.59	3 58	14.83	59	10.40	5 25	15.76	58	78.50	10 07
14.98	34	84.77	9 42	14.64	9	90.96	7 32	14.64	9	1.63	8 33	15.57	48 0	10.65	5 58	13.72	45 0	78.94	18 25
15.76	34	84.80	4 34	15.02	9	91.00	3 17	14.20	10	1.80	7 12	15.57	2	10.89	8 43	14.08	0	78.97	15 51
14.83	34	84.83	8 10	15.57	11	91.32	0 04	14.83	11	1.92	8 43	13.72	3	11.14	5 20	15.76	0	78.97	11 46
15.76	34	84.87	0 47	15.57	12	91.46	1 09	15.76	11	1.98	3 11	13.65	3	11.15	4 19	15.02	1	78.98	17 09
13.65	34	84.91	6 11	14.27	12	91.61	2 03	15.76	11	2.00	1 23	15.34	4	11.29	0 58	14.53	1	78.99	19 53
14.01	36	85.09	3 34	14.72	13	91.76	5 38	13.72	12	2.13	7 09	15.14	7	11.79	7 39	15.42	1	79.03	12 04
13.31	37	85.28	6 06	15.42	15	92.04	4 54	14.91	12	2.17	7 48	11.13	7	11.85	4 13	14.20	1	79.07	13 54
11.94	37	85.28	0 30	15.57	15	92.09	5 57	15.14	14	2.38	6 53	15.76	8	11.91	5 24	13.38	1	79.13	18 01
15.76	37	85.35	8 23	15.57	16	92.15	8 30	15.22	16	2.76	6 13	15.30	8	11.93	9 23	15.22	2	79.26	14 44
15.76	37	85.38	0 06	15.30?	16	92.16	4 21	13.79	17	2.96	4 28	15.30	11	12.58	1 36	9.32	2	79.31	17 01
13.05	41	85.98	6 46	15.42	16	92.18	9 08	14.72	18	3.11	2 34	15.57	14	13.04	4 44	14.37	3	79.33	15 52
15.76	41	86.01	2 43	15.76	16	92.30	1 56	15.30	23	4.05	5 02	15.76	16	13.45	4 26	15.76	3	79.42	10 35

25 prec. + 52 sec. + 5′ 33″.

Area 40.

551—600				601—650				651—700				701—750				751—793			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.37	45 5	79.71	19 05	15.42	45 38	85.65	18 25	15.57	46 18	92.60	13 15	15.76	46 56	99.22	17 36	14.01	47 45	7.91	16 52
14.44	5	79.80	19 47	15.76	39	85.67	13 23	12.56	19	92.83	14 39	15.10	58	99.56	17 00	11.35	45	7.95	17 14
12.56	6	79.87	16 55	15.76	39	85.72	12 59	14.94	21	93.17	11 42	15.10	58	99.57	16 02	14.83	48	8.43	17 19
14.94	6	79.94	14 23	14.08	40	85.83	15 53	15.76	21	93.21	17 46	15.14	59	99.81	11 19	15.76	49	8.56	18 58
15.57	6	79.96	15 01	15.76	40	85.95	11 34	14.64	23	93.42	18 50	14.20	47 0	0.09	19 41	15.76	52	9.20	19 43
14.75	6	79.96	16 43	15.30	40	85.95	14 40	14.57	23	93.43	15 11	15.76	1	0.13	13 23	15.76	53	9.38	17 40
15.10	6	80.00	10 30	15.76	41	86.03	19 00	14.75	24	93.65	15 48	15.42	3	0.60	14 28	15.76	54	9.49	12 00
15.30	7	80.19	16 11	15.76	41	86.14	12 50	13.72	25	93.92	13 55	15.76	4	0.64	18 38	15.34	56	9.95	11 12
14.64	8	80.20	10 02	14.94	41	86.16	19 56	14.53	26	93.95	14 47	15.76	5	0.84	17 33	15.76	56	9.95	10 18
13.90	9	80.47	11 57	15.76	42	86.20	15 31	15.76	28	94.33	17 47	14.20	6	1.08	16 09	15.10	58	10.17	14 33
15.42	12	80.97	14 14	15.14	42	86.24	14 11	13.38	28	94.44	15 40	15.10	6	1.15	19 19	12.56	58	10.20	12 45
14.94	12	81.00	17 55	15.76	42	86.26	14 35	15.14	28	94.44	19 31	15.57	7	1.16	14 52	15.34	58	10.30	13 02
14.20	14	81.27	10 30	15.10	42	86.36	18 19	15.76	29	94.61	15 26	14.57	9	1.55	18 07	14.64	59	10.41	10 35
12.56	15	81.49	18 07	13.38	44	86.71	14 34	15.30	30	94.74	11 47	14.83	12	2.04	11 33	14.91	59	10.44	15 03
12.82	15	81.58	10 28	14.87	46	86.95	10 26	14.44	30	94.74	16 45	15.57	13	2.23	16 28	15.76	59	10.44	17 37
15.14	16	81.61	18 21	15.76	46	87.05	10 10	15.57	32	95.12	15 51	14.27	13	2.29	18 30	11.94	48 1	10.73	18 44
15.76	19	82.24	11 32	14.72	48	87.27	14 57	15.76	34	95.39	12 31	14.27	14	2.48	12 33	15.76	2	10.90	18 04
14.33	20	82.32	15 29	15.02	48	87.30	14 18	13.21	34	95.43	19 24	14.72	17	2.96	15 12	15.76	3	11.12	17 21
14.33	20	82.38	17 28	12.56	48	87.33	17 40	15.42	35	95.52	12 15	15.76	17	3.01	17 21	15.76	4	11.26	11 12
15.76	20	82.45	17 43	14.37	48	87.36	19 40	15.76	35	95.53	14 12	14.57	17	3.06	14 57	15.57	4	11.28	11 47
15.76	20	82.48	10 03	15.76	49	87.46	13 33	15.76	35	95.66	16 01	13.79	19	3.28	10 06	12.89	4	11.33	18 46
15.30	21	82.61	15 26	15.57	51	87.88	19 59	15.42	36	95.79	12 52	15.76	19	3.29	13 54	15.76	4	11.34	16 42
12.72	21	82.62	17 05	15.42	51	87.90	15 34	15.14	37	95.91	18 32	13.31	22	3.90	16 49	15.76	6	11.58	11 28
15.14	22	82.71	11 14	15.76	51	87.93	11 29	15.76	38	96.10	15 28	15.14	23	4.13	18 27	12.89	6	11.69	14 13
15.34	22	82.75	15 50	15.10	52	88.04	17 19	15.34	38	96.20	12 33	13.05	24	4.27	17 24	13.90	8	11.89	13 25
12.40	22	82.76	19 33	15.57	53	88.19	14 03	12.24	39	96.29	19 53	15.42	25	4.44	17 17	15.42	8	11.97	18 35
15.57	22	82.79	14 04	15.76	53	88.23	15 36	15.76	39	96.37	19 34	12.09	27	4.81	17 59	13.97	11	12.58	15 37
14.91	23	82.97	11 47	15.02	54	88.29	11 46	14.16	40	96.39	17 30	13.79	28	4.95	14 23	15.42	13	12.78	18 20
15.76	26	83.38	18 11	15.14	54	88.30	10 36	11.94	40	96.44	16 05	13.05	28	5.00	12 29	13.21	13	12.86	14 46
13.97	26	83.40	17 48	15.57	55	88.52	16 14	14.72	40	96.57	13 34	14.08	29	5.08	13 07	15.76	14	12.98	16 27
14.94	27	83.58	16 28	13 90	57	88.83	14 11	14.75	41	96.63	18 31	15.76	30	5.30	16 08	12.89	15	13.16	14 31
12.40	27	83.61	11 39	12.89	58	89.07	11 41	15.76	42	96.88	16 19	15.10	32	5.56	10 12	15.76	15	13.21	11 42
15.14	27	83.63	17 28	14.64	59	89.18	11 36	12.09	42	96.88	14 19	15.10	32	5.64	15 39	15.76	16	13.35	17 31
13.48	27	83.65	17 37	13.21	46 0	89.44	17 07	15.76	46	97.59	11 34	12.72	32	5.65	18 05	12.56	16	13.44	12 28
15.30	27	83.65	17 10	15.10	1	89.55	11 10	14.94	47	97.70	15 03	14.27	33	5.80	18 05	14.94	19	13.84	19 37
15.02	29	83.91	11 34	14.94	3	89.94	11 54	12.89	48	97.90	13 30	14.68	35	6.17	10 26	14.08	19	13.89	11 59
9.00	29	83.97	15 13	15.76	4	90.06	16 52	14.83	48	97.92	10 18	14.20	36	6.36	10 31	15.76	19	13.98	11 15
14.94	29	84.04	16 34	14.75	4	90.11	12 55	14.57	48	97.94	15 46	15.76	37	6.48	10 56	13.05	20	13.99	14 48
15.76	31	84.30	12 22	14.72	4	90.12	14 30	14.37	48	97.97	13 04	15.42	38	6.62	15 23	13.21	22	14.47	17 33
15.76	32	84.48	12 22	11.94	5	90.26	11 56	14.44	49	98.13	17 50	15.76	40	7.08	13 26	15.02	23	14.59	17 06
15.42	33	84.75	12 12	15.76	6	90.55	14 33	14.94	50	98.21	13 13	15.76	41	7.16	17 17	15.76	24	14.79	10 19
15.76	34	84.85	12 54	14.94	8	90.85	15 33	15.10	51	98.41	14 26	15.02	42	7.33	12 26	12.09	25	14.97	12 18
14.37	34	84.86	10 43	15.76?	10	91.20	13 53	14.27	52	98.62	10 08	14.16	42	7.48	16 04	15.42	25	14.98	19 00
15.02	35	85.12	14 34	14.57	13	91.67	14 33	15.14	52	98.63	12 13	15.02	43	7.50	18 00				
12.89	36	85.20	10 09	14.27	13	91.67	15 28	15.30	53	98.72	19 28	13.21	43	7.59	19 31				
12.89	36	85.22	14 17	14.72	14	91.94	16 09	15.76	54	98.85	17 57	14.33	43	7.64	15 42				
13.38	36	85.25	14 10	14.27	15	92.08	15 31	15.76	54	98.87	12 21	11.26	44	7.69	17 43				
10.70	37	85.47	11 30	14.83	17	92.40	12 17	15.76	55	99.05	10 25	13.05	44	7.71	17 04				
12.89	38	85.53	19 03	15.02	18	92.53	16 11	15.14	55	99.14	11 54	14.75	44	7.80	12 19				
15.76	38	85.58	14 02	15.76	18	92.53	13 59	15.76	56	99.22	13 32	15.42	45	7.89	10 48				

25 prec. + 52 sec. + 5′ 33″.

Area 41. Centre for 1900: 21h 50m + 45° 0′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.58	47 45	76.06	42 50	14.12	48 34	84.82	48 13	13.59	49 19	92.73	42 15	13.59	49 57	99.40	46 26	15.58	50 29	5.24	48 53
15.24	46	76.17	47 14	12.31	35	84.89	42 04	15.58	20	92.85	45 17	14.51	57	99.55	49 14	15.58	31	5.50	45 37
14.34	46	76.19	42 22	13.50	36	85.12	45 27	15.24	20	92.89	43 00	15.58	59	99.75	46 54	15.24	32	5.74	49 50
13.42	47	76.34	41 02	14.06	36	85.13	47 36	13.59	20	92.96	49 08	15.58	59	99.80	43 59	11.96	34	6.12	45 31
14.12	47	76.41	46 44	13.64	37	85.30	46 19	12.38	20	92.96	49 40	11.28	59	99.87	40 17	15.39	35	6.18	46 34
15.39	48	76.57	40 10	13.87	37	85.30	45 34	13.16	21	93.13	47 02	12.92	50 0	0.05	49 50	13.21	35	6.26	41 22
15.58	51	77.04	46 06	14.06	37	85.35	46 29	15.58	22	93.20	49 56	14.34	1	0.11	43 35	14.39	37	6.50	43 59
15.58	52	77.22	49 57	14.39	38	85.42	47 06	15.01	22	93.21	40 31	14.71	1	0.16	48 24	15.58	38	6.68	42 00
14.39	53	77.50	48 46	15.01	40	85.81	40 37	13.00	23	93.37	49 51	14.51	1	0.16	46 57	13.82	38	6.70	49 25
15.58	54	77.61	41 34	14.39	41	85.97	42 09	15.58	24	93.59	41 26	14.71	2	0.35	46 46	15.16	38	6.76	49 50
11.12	54	77.66	44 52	9.86	42	86.09	46 14	13.73	24	93.64	47 07	15.58	2	0.44	49 46	13.82	39	7.00	42 26
15.39	54	77.71	44 38	13.37	43	86.26	40 43	14.12	24	93.69	44 45	14.22	3	0.56	49 40	14.12	40	7.14	40 24
13.64	55	77.77	43 17	14.65	45	86.73	43 17	14.65	25	93.83	43 50	13.64	4	0.64	47 01	14.12	42	7.44	41 18
15.58	56	78.04	40 50	14.12	46	86.94	45 18	14.65	26	93.90	46 47	15.58	5	0.82	44 52	15.58	42	7.52	47 35
15.39	57	78.14	42 56	14.51	47	86.98	47 47	15.58	26	94.04	47 03	12.57	6	1.05	49 06	14.71	43	7.70	43 46
13.37	57	78.18	47 11	12.68	48	87.27	40 44	14.12	27	94.08	49 31	13.42	6	1.05	46 04	14.71	44	7.85	42 40
14.85	48 0	78.70	40 31	12.31	49	87.45	48 41	15.58	28	94.27	49 24	13.91	6	1.05	49 58	15.58	44	7.90	41 19
14.51	0	78.72	49 11	15.39	50	87.54	44 27	15.58	28	94.29	47 55	14.51	6	1.06	47 00	13.42	48	8.54	40 21
13.87	1	78.91	41 23	13.64	50	87.58	41 03	14.12	29	94.41	41 07	11.04	7	1.24	40 17	15.39	48	8.55	40 04
14.71	2	79.01	44 55	15.58	51	87.75	45 52	15.58	30	94.64	44 02	13.08	8	1.35	47 54	15.58	50	8.82	41 55
14.34	2	79.14	48 06	14.39	51	87.82	49 24	15.58	31	94.77	42 39	10.99	8	1.42	44 53	12.76	50	8.91	48 28
15.58	4	79.47	48 15	13.96	52	87.87	40 29	14.39	31	94.88	47 14	14.22	9	1.59	43 19	13.82	50	8.96	42 07
15.58	6	79.68	49 35	15.58	52	88.00	46 48	11.79	33	95.16	42 55	15.58	9	1.64	40 43	15.39	51	8.98	47 25
14.22	6	79.82	47 08	14.51	53	88.19	47 35	14.65	33	95.24	48 49	15.58	10	1.68	40 13	14.22	51	9.04	47 42
15.58	6	79.85	48 51	15.39	54	88.33	46 48	14.85	33	95.24	49 44	14.71	10	1.75	40 04	14.39	52	9.20	47 26
15.39	7	79.96	47 23	15.39	55	88.50	48 13	13.50	33	95.29	46 38	13.64	11	2.02	41 59	15.58	53	9.38	47 11
13.21	7	79.99	41 42	15.58	55	88.50	44 09	13.96	34	95.46	40 18	12.96	12	2.11	45 56	15.08	53	9.40	44 34
13.82	8	80.15	44 24	15.58	57	88.78	47 52	15.58	35	95.58	49 43	14.22	13	2.37	48 35	14.71	53	9.48	49 20
15.58	9	80.30	45 51	15.58	59	89.13	47 42	15.08	36	95.82	45 17	12.13	14	2.43	48 11	15.01	53	9.48	41 48
14.12	9	80.33	41 17	13.96	59	89.24	47 48	13.96	37	95.84	47 56	15.58	14	2.49	44 16	13.87	55	9.72	40 33
13.21	11	80.65	46 44	15.58	49 0	89.33	48 25	15.39	37	95.93	46 35	14.51	15	2.60	43 23	15.58	56	9.86	43 09
14.65	12	80.75	46 21	13.59	1	89.47	43 11	14.85	38	96.04	43 16	10.11	16	2.77	46 18	13.29	56	9.90	48 56
13.50	12	80.75	43 21	15.39	4	89.98	49 48	15.58	38	96.14	48 04	15.39?	16	2.82	46 06	15.58	57	10.18	44 50
14.71	12	80.77	44 07	15.01	4	89.99	46 35	15.58	39	96.22	48 26	15.58	17	3.03	47 55	13.64	58	10.23	48 36
14.22	13	80.92	41 06	13.82	4	90.00	49 14	14.85	39	96.34	46 01	12.68	18	3.18	45 48	15.58	59	10.52	45 16
15.24	14	81.13	48 20	14.22	4	90.05	43 10	14.71	40	96.44	41 42	14.51	19	3.31	47 45	15.58	51 1	10.86	40 44
15.58	16	81.45	44 04	14.22	5	90.17	40 36	15.58	41	96.70	46 02	12.13	20	3.61	41 16	13.82	1	10.89	42 20
14.12	16	81.50	40 57	14.85	6	90.35	46 12	13.87	43	96.98	47 14	15.58	21	3.66	43 45	15.58	1	10.90	45 24
15.39	16	81.60	41 44	14.85	6	90.40	44 36	13.96	44	97.25	48 26	15.58	21	3.74	45 24	15.58	2	10.94	44 00
12.13	19	82.01	47 28	15.58	6	90.42	43 23	15.58	45	97.42	43 23	10.48	21	3.77	47 01	14.39	2	11.02	44 25
13.42	20	82.21	48 34	15.24	10	91.09	48 19	15.24	46	97.61	47 25	15.01	22	3.89	48 37	13.82	2	11.04	40 48
15.58	21	82.38	41 32	14.71	10	91.17	40 33	13.37	49	97.99	46 03	15.58	23	4.12	41 21	14.22	2	11.08	45 04
15.08	23	82.76	40 36	13.96	11	91.37	41 23	15.58	50	98.16	42 48	12.57	24	4.22	41 53	14.65	4	11.38	49 36
12.57	24	82.90	44 24	14.22	12	91.49	43 51	14.39	51	98.32	42 40	15.58	24	4.26	46 46	15.58	5	11.60	45 03
14.51	24	82.91	48 17	15.58	13	91.66	49 22	12.96	52	98.56	46 33	15.08	25	4.52	45 18	15.39	6	11.80	48 34
14.65	24	82.95	49 17	15.58	14	91.80	41 52	13.96	53	98.68	44 56	15.58	26	4.70	44 45	15.08	8	12.05	44 24
13.82	28	83.59	48 08	15.01	17	92.37	40 38	15.58	54	98.91	42 10	14.51	27	4.73	44 35	10.26	8	12.09	47 29
15.58	30	83.97	40 25	14.65	18	92.54	48 08	15.58	55	99.03	46 28	12.31	28	4.97	49 21	13.82	9	12.31	42 29
11.79	31	84.21	40 18	13.96	18	92.57	47 01	11.22	55	99.09	48 01	15.39	29	5.08	46 24	15.58	10	12.39	43 17
15.58	34	84.64	48 18	14.06	19	92.69	45 47	14.34	56	99.25	49 14	15.58	29	5.14	48 04	15.58	11	12.60	48 47

25 prec. + 59 sec. + 7′ 2″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.22	51 13	12.89	48 35	15.01	48 12	80.93	58 02	13.64	49 9	90.91	54 10	15.58	49 50	98.22	56 43	15.58	50 33	5.84	52 33
12.88	13	12.96	49 06	14.65	12	80.93	55 15	15.58	9	90.93	55 02	13.64 :	52	98.59	57 45	15.58	34	5.95	53 02
13.87	14	13.06	44 20	12.38	13	81.11	53 41	13.55	10	91.15	50 20	11.04	52	98.65	51 29	14.85	34	5.98	53 52
13.64	14	13.15	49 01	14.01	15	81.40	50 12	15.58	10	91.19	52 56	13.96	53	98.84	53 35	14.39	34	6.04	58 38
15.39	14	13.19	45 46	15.24	15	81.47	51 15	14.34	12	91.48	53 15	14.06	54	99.02	59 46	14.45	34	6.08	59 43
14.34	15	13.40	48 44	15.58	16	81.60	52 22	15.58	13	91.63	57 54	14.71	55	99.16	58 32	14.85	35	6.25	53 55
15.58	16	13.44	47 08	15.58	16	81.62	56 06	13.78	15	91.95	50 20	14.85	56	99.20	53 13	15.58	36	6.32	57 24
15.58	16	13.47	47 24	14.85	17	81.81	52 26	15.58	15	92.07	54 14	14.71	56	99.24	51 51	14.71	37	6.58	59 47
15.24	16	13.47	46 43	15.24	17	81.85	59 10	14.51	15	92.08	58 46	15.24	56	99.28	58 16	15.58	41	7.25	58 12
12.88	17	13.65	42 16	15.58	19	82.03	51 51	15.58	15	92.10	54 23	12.68	56	99.36	52 26	13.82	41	7.31	59 16
15.58	17	13.71	49 33	15.58	19	82.07	51 37	13.59	16	92.12	50 24	14.39	56	99.38	56 36	14.85	42	7.43	53 23
15.01	19	14.09	43 12	13.42	19	82.17	53 50	13.59	16	92.24	57 13	12.31	57	99.40	51 27	13.87	42	7.46	58 55
12.49	19	14.10	48 51	12.13	21	82.44	57 04	15.08	17	92.35	52 49	14.65	57	99.44	56 51	14.34	44	7.80	54 58
15.24	21	14.39	44 46	13.42	22	82.58	53 17	14.71	17	92.42	55 41	13.82	57	99.53	57 02	15.58	45	7.91	58 26
13.64	21	14.40	46 08	14.51	22	82.62	57 30	15.58	18	92.50	59 06	15.39	57	99.53	57 38	14.71	45	7.95	51 50
13.50	22	14.51	41 15	14.12	22	82.64	58 31	13.29	19	92.67	52 51	15.24	58	99.63	51 39	14.85	45	8.03	59 30
14.65	23	14.67	40 38	15.08	22	82.65	51 34	15.58	20	92.92	50 42	15.58	59	99.74	58 30	15.39	46	8.11	58 51
13.82	23	14.72	47 43	13.50	24	83.00	55 15	15.08	21	93.14	58 27	14.34	59	99.85	52 16	14.51	47	8.23	51 50
14.34	23	14.73	41 41	15.39	24	83.01	54 39	15.08	22	93.28	59 11	15.01	50 1	0.11	56 24	14.28	47	8.38	59 46
13.73	24	14.99	40 10	13.96	25	83.12	52 43	15.58	23	93.38	55 12	15.58	1	0.23	56 12	14.65	49	8.62	55 20
14.71	25	15.02	49 10	14.12	26	83.32	59 24	14.85	23	93.54	59 27	14.45	3	0.62	59 33	15.01	50	8.77	59 25
15.24	26	15.22	45 13	11.89	26	83.36	50 30	14.71	24	93.60	58 55	14.65	4	0.71	56 32	12.68	51	8.95	54 37
15.39	28	15.60	43 11	14.34	30	84.03	58 19	14.78	25	93.85	50 16	14.71	5	0.83	52 41	15.39	51	8.96	53 35
14.71	30	15.91	41 48	13.96	30	84.08	59 00	14.51	27	94.16	51 29	15.01	5	0.94	56 33	14.65	52	9.17	58 08
10.47	30	15.93	45 13	13.29	32	84.33	51 58	14.85	28	94.28	56 01	13.55	7	1.26	50 17	15.08	55	9.70	58 20
13.82	47 47	76.45	55 52	15.58	32	84.44	56 54	15.16	28	94.36	59 54	14.51	8	1.42	53 54	15.58	56	9.90	53 38
12.76	48	76.62	53 12	15.58	33	84.66	57 28	15.08	28	94.42	59 34	15.58	9	1.63	51 54	12.49	57	10.03	54 50
13.87	49	76.80	51 18	14.65	34	84.83	54 33	15.58	29	94.49	50 42	15.58	11	1.88	50 46	15.58	57	10.14	55 28
12.96	50	77.03	50 39	15.58	35	84.90	53 31	13.42	30	94.61	59 42	15.24	13	2.27	57 18	15.24	59	10.38	54 34
13.21	52	77.37	57 48	13.59	38	85.50	58 03	15.39	30	94.72	56 07	14.71	13	2.37	56 43	15.58	51 0	10.54	52 10
14.22	55	77.79	54 34	13.82	42	86.21	51 51	15.58	33	95.19	52 23	15.58	14	2.40	51 12	12.88	0	10.55	57 53
15.58	55	77.81	58 37	15.58	43	86.35	54 07	15.24	34	95.36	53 27	14.85	14	2.47	58 02	15.24	3	11.10	52 25
15.58	55	77.92	59 29	15.58	44	86.51	59 27	15.58	34	95.47	54 19	15.58	15	2.69	57 11	15.08	3	11.11	54 07
15.58	56	78.04	50 02	11.28	45	86.70	56 15	9.84	36	95.69	58 54	11.96	15	2.71	54 26	14.51	3	11.12	58 44
15.58	57	78.21	59 49	14.06	46	86.94	54 31	15.39	36	95.78	55 01	15.58	16	2.83	51 33	15.58	4	11.23	55 51
15.01	58	78.46	59 00	15.24	48	87.24	57 32	14.85	36	95.79	52 41	15.39	18	3.18	59 11	13.82	4	11.26	59 59
12.31	48 0	78.67	55 30	15.58	50	87.69	56 22	9.10*	37	95.95	51 11	13.08	20	3.61	52 55	15.58	4	11.35	55 15
15.01	1	79.00	52 36	14.65	52	87.91	59 08	15.01	37	95.98	54 31	14.85	21	3.70	52 25	15.01	5	11.58	51 21
15.39	2	79.03	50 24	11.96	53	88.12	55 05	15.24	38	96.12	53 44	15.58	22	3.83	55 28	14.65	6	11.61	58 30
13.96	2	79.13	55 38	14.65	53	88.14	58 40	13.73	39	96.30	53 31	12.13	22	3.92	57 04	15.08	6	11.62	59 20
15.58	2	79.14	57 39	14.51	54	88.38	57 38	14.34	41	96.57	55 31	13.42	23	4.02	59 56	13.96	6	11.68	59 03
15.24	3	79.21	55 23	15.58	57	88.81	54 14	13.82	42	96.76	51 23	14.71	23	4.12	53 04	15.39	8	11.97	57 59
12.76	3	79.29	57 19	15.58	59	89.25	52 15	15.24	43	97.00	50 37	15.58	24	4.16	51 51	15.58	8	12.02	52 09
15.58	3	79.31	52 50	14.71	59	89.26	55 04	14.71	43	97.02	55 15	14.85	25	4.41	56 03	14.12	8	12.03	54 05
14.85	7	80.02	58 58	15.58	49 0	89.29	51 52	15.39	43	97.03	57 40	14.71	27	4.76	51 03	15.01	8	12.07	57 21
15.39	8	80.10	50 01	14.71	1	89.50	50 52	15.58	44	97.24	58 59	12.61	28	4.88	55 31	15.58	9	12.15	51 30
11.96	8	80.16	57 33	14.45	1	89.55	59 52	15.39	46	97.51	55 04	14.22	28	5.00	54 15	12.03	10	12.31	59 46
15.58	8	80.22	51 01	14.34	4	90.11	54 34	12.31	46	97.54	59 03	15.24	28	5.04	54 13	15.58	10	12.41	59 59
12.24	10	80.53	59 58	14.34	5	90.35	59 02	15.01	47	97.63	54 14	14.71	30	5.26	58 00	11.54	10	12.43	54 10
14.39	11	80.77	51 37	14.51	7	90.59	52 00	15.08	49	98.08	52 10	15.58	32	5.74	51 20	14.22	11	12.60	55 19

25 prec. + 59 sec. + 7′ 2″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	a	x	$y+60'$ / $y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.24	51 11	12.65	56 32	11.69	48 13	81.04	9 50	15.58	48 53	88.14	5 18	15.58	49 55	99.19	7 35	15.58	50 33	5.87	2 31
14.65	13	12.97	57 53	15.58	13	81.06	4 48	11.96	53	88.22	4 16	15.58	57	99.43	0 48	13.73	34	6.06	1 06
15.24	15	13.25	57 39	9.86	14	81.30	1 52	12.68	54	88.39	2 34	15.58	57	99.45	8 10	15.58	34	6.07	7 24
15.24	15	13.25	51 20	15.58	17	81.82	8 08	14.65	55	88.47	5 29	10.46	57	99.45	4 46	15.24	36	6.32	8 32
15.58	17	13.70	50 04	15.01	17	81.84	4 16	10.72	55	88.58	7 17	13.46	59	99.74	9 33	13.50	36	6.32	0 27
15.39	18	13.72	55 48	15.58	18	81.95	6 49	15.58	55	88.61	1 16	15.01	59	99.86	2 10	14.85	36	6.35	9 14
15.08	19	13.96	58 20	15.58	18	82.00	3 50	14.71	56	88.64	9 11	13.73	59	99.90	1 31	15.58	37	6.58	2 54
15.24	20	14.08	57 02	14.39	19	82.20	0 08	13.82	56	88.64	1 07	15.08	50 1	0.15	7 25	14.65	37	6.62	6 56
13.59	20	14.08	50 20	14.34	19	82.21	5 17	15.58	56	88.71	4 08	15.58	1	0.17	5 37	14.51	38	6.73	1 06
13.73	20	14.18	50 14	13.37	20	82.29	8 35	15.39	58	89.07	1 32	12.68	1	0.19	4 03	15.39	39	6.92	9 55
15.58	21	14.32	59 43	15.24	20	82.31	8 56	13.59	58	89.11	8 47	14.34	2	0.29	0 49	15.39	40	7.08	3 49
14.65	22	14.46	55 04	14.71	22	82.65	8 24	15.58	59	89.32	7 39	14.71	2	0.36	7 24	13.21	41	7.31	6 21
15.39	24	14.85	59 47	15.58	22	82.74	7 58	15.58	49 0	89.40	5 07	14.65	3	0.47	3 01	15.24	42	7.44	2 41
15.58	24	14.96	55 34	14.12	23	82.96	4 23	13.78	1	89.58	9 53	14.12	3	0.60	9 06	14.39	43	7.61	7 59
14.39	26	15.14	59 44	14.12	25	83.31	8 43	15.39	5	90.26	4 44	15.58	5	0.80	7 27	15.58	43	7.63	6 25
15.39	26	15.20	51 38	13.87	26	83.34	9 58	14.71	6	90.54	4 13	13.87	5	0.87	6 18	13.87	43	7.68	9 26
13.82	26	15.29	50 50	13.82	26	83.50	6 47	12.49	9	90.94	0 54	15.58	6	1.05	5 38	15.58	45	7.88	8 30
15.58	28	15.62	58 23	15.58	26	83.50	7 08	15.58	9	91.02	7 11	14.39	6	1.12	1 26	11.96	45	7.90	8 10
11.21	28	15.62	50 10	14.85	27	83.55	9 09	13.64	14	91.91	2 00	13.29	9	1.50	5 34	15.24	45	8.01	2 15
13.82	30	15.93	57 43	15.58	27	83.59	3 09	14.51	16	92.29	8 05	15.58	10	1.81	2 43	15.58	47	8.31	9 34
15.58	47 48	76.64	6 17	14.01	27	83.61	0 01	14.51	20	92.90	0 40	15.24	11	1.89	5 29	15.58	47	8.38	8 35
12.68	49	76.84	8 15	13.96	27	83.61	0 56	15.58	20	92.99	3 52	14.12	11	1.97	9 15	15.58	48	8.44	5 34
15.39	49	76.88	7 55	13.64	27	83.61	0 49	15.58	21	93.08	2 16	14.22	11	2.01	4 17	15.58	49	8.60	6 25
14.85	52	77.44	4 27	15.24	27	83.62	2 56	14.85	22	93.28	0 13	14.85	12	2.04	3 47	15.30	50	8.78	0 25
14.22	52	77.44	5 46	15.01	28	83.83	8 24	14.65	22	93.30	6 57	15.58	13	2.27	0 17	13.64	52	9.13	6 58
15.58	53	77.56	6 48	14.39	29	83.98	0 28	14.39	22	93.33	9 07	13.29	14	2.42	8 31	15.58	56	9.96	7 21
14.12	53	77.63	9 16	15.39	30	84.14	6 34	14.85	23	93.42	7 59	14.39	15	2.61	4 48	14.85	58	10.19	4 05
15.58	53	77.65	6 05	13.73	30	84.17	2 00	15.58	23	93.42	8 10	15.58	16	2.81	2 08	14.65	58	10.23	1 08
15.58	54	77.68	6 54	15.58	31	84.24	8 17	15.58	25	93.83	9 01	8.10*	20	3.44	4 14	15.58	58	10.28	9 14
15.08	54	77.70	4 59	14.06	31	84.27	0 22	15.58	28	94.42	9 58	14.06	20	3.50	8 32	15.24	51 0	10.53	8 59
15.58	55	77.86	7 01	15.39	32	84.51	4 14	13.82	29	94.57	7 27	15.39	20	3.55	0 55	14.65	0	10.63	6 57
15.58	55	77.94	4 09	13.82	34	84.84	7 22	14.51	31	94.84	1 24	15.58	20	3.60	9 57	15.08	0	10.63	6 12
14.51	56	78.10	1 23	15.58	35	84.92	4 37	14.85	31	94.92	0 09	15.58	21	3.66	8 39	13.73	0	10.64	9 50
15.58	56	78.14	6 52	15.58	36	85.20	2 49	13.64	32	95.04	7 23	14.85	21	3.75	3 03	15.58	1	10.72	2 06
15.58	57	78.21	7 36	15.58	37	85.41	4 30	15.58	34	95.39	4 32	14.39	22	3.87	9 13	15.08	1	10.84	5 24
15.58	57	78.22	2 24	15.58	39	85.61	0 45	15.58	34	95.41	1 38	15.39	22	3.96	2 00	14.71	2	10.93	9 24
14.39	57	78.35	3 03	12.13	39	85.78	1 44	15.08	35	95.57	7 52	14.65	23	4.06	9 29	14.65	2	10.95	2 30
14.39	58	78.45	3 08	15.58	40	85.80	2 49	14.65	37	96.00	8 42	14.06	24	4.26	2 12	14.39	3	11.08	5 34
13.64	59	78.58	2 22	14.71	40	85.82	9 58	14.65	38	96.18	6 02	15.39	24	4.27	3 57	13.87	3	11.13	3 27
14.51	48 0	78.86	1 11	15.58	40	85.91	7 38	14.51	40	96.47	1 31	14.71	25	4.37	4 33	12.88	4	11.21	5 51
14.51	3	79.31	7 02	15.58	40	85.95	7 28	12.24	41	96.56	2 03	15.58	25	4.41	0 55	15.58	4	11.38	9 45
12.31	3	79.32	1 00	15.58	42	86.29	1 00	15.58	41	96.57	7 45	15.58	26	4.66	7 26	15.08	6	11.60	9 49
14.51	5	79.65	6 09	15.58	43	86.34	0 17	15.01	41	96.62	4 07	13.25	28	4.87	0 24	15.58	6	11.61	4 16
15.58	6	79.95	5 28	14.22	45	86.71	2 59	15.39	43	97.02	7 11	12.80	28	4.92	5 45	15.58	7	11.80	4 52
15.24	7	79.99	2 20	15.24	45	86.81	3 23	15.58	45	97.28	4 08	15.58	28	5.03	7 29	15.39	9	12.12	5 08
14.12	7	80.06	7 08	12.61	46	86.96	3 03	14.22	45	97.34	5 38	14.51	30	5.32	8 36	15.58	10	12.26	0 10
14.85	7	80.11	2 10	14.06	50	87.58	4 03	14.17	49	98.06	9 29	15.08	31	5.41	0 52	13.96	12	12.63	9 34
15.08	8	80.30	8 05	13.64	50	87.60	9 11	15.39	50	98.16	3 02	13.50	31	5.46	7 24	15.58	12	12.66	5 07
15.08	9	80.42	7 16	14.06	50	87.60	7 45	14.51	50	98.30	8 25	15.39	33	5.74	1 29	12.31	13	12.82	3 03
14.85	10	80.63	0 24	15.58	52	87.99	1 08	14.39	53	98.76	7 10	15.58	33	5.84	5 08	11.79	13	12.93	5 41

25 prec. + 59 sec. + 7′ 2″.

Area 41.

751—800				801—850				851—900				901—950				951—1000			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.65	51 13	12.97	8 57	13.16	48 4	79.62	16 32	15.58	48 46	87.03	10 37	14.85	49 42	96.74	11 57	14.22	50 20	3.55	12 41
15.58	14	13.01	4 07	15.58	6	79.90	14 24	15.58	48	87.25	16 37	14.65	42	96.81	16 53	15.39	22	3.88	19 31
13.96	15	13.28	1 52	15.58	6	79.91	19 19	15.58	48	87.28	13 08	15.08	42	96.87	18 35	15.58	24	4.22	16 24
15.58	16	13.35	9 21	15.08	6	79.91	17 02	12.13	48	87.33	15 25	14.71	43	96.95	17 36	13.87	24	4.24	15 41
13.96	17	13.55	6 35	15.58	6	80.01	19 06	14.65	51	87.86	14 35	15.08	45	97.30	13 41	15.58	25	4.36	14 06
15.39	17	13.62	8 55	15.58	7	80.16	15 10	15.24	52	88.00	10 14	15.58	45	97.35	16 56	15.58	26	4.49	13 36
15.58	18	13.71	5 33	15.58	8	80.24	19 08	15.58	53	88.15	15 43	15.08	46	97.47	10 38	15.58	26	4.53	16 00
13.59	18	13.82	2 31	14.39	8	80.32	17 13	15.39	53	88.25	10 08	15.58	46	97.50	10 03	14.39	28	4.93	17 01
15.58	19	14.03	8 49	15.58	9	80.46	17 50	15.24	54	88.36	18 51	14.06	46	97.54	13 28	14.85	28	4.95	11 18
15.58	22	14.40	7 38	15.58	9	80.49	14 38	15.39	55	88.50	12 36	15.58	47	97.70	15 21	14.39	30	5.25	11 27
13.08	22	14.46	2 15	13.50	10	80.71	13 34	15.01	56	88.73	16 38	15.58	48	97.91	14 34	12.31	30	5.29	19 43
14.34	23	14.60	5 51	14.39	12	81.05	13 06	13.42	56	88.79	13 01	15.58	48	97.92	13 16	13.82	33	5.76	16 27
15.58	23	14.66	6 26	15.24	13	81.08	13 37	13.37	58	89.02	11 56	13.64	49	98.04	15 05	15.58	34	5.94	13 11
15.58	24	14.78	2 26	11.93	13	81.16	10 01	11.96	59	89.18	17 35	11.96	49	98.07	19 09	15.58	35	6.17	19 20
14.71	24	14.82	2 38	15.58	13	81.17	10 19	13.82	59	89.33	15 09	15.58	50	98.30	17 17	15.58	35	6.23	13 38
14.71	25	14.94	4 48	13.87	16	81.70	17 05	12.31	49 0	89.49	10 32	15.58	50	98.31	16 57	15.24	38	6.67	13 59
14.34	25	15.03	6 44	14.12	18	82.11	18 30	15.01	2	89.73	16 35	15.24	52	98.55	14 28	14.06	40	7.06	18 24
15.58	26	15.10	6 26	15.58	18	82.12	12 02	14.39	2	89.82	18 51	15.24	54	98.84	11 35	15.24	40	7.07	12 17
12.57	26	15.23	4 57	13.87	20	82.38	17 42	14.85	2	89.87	15 52	15.58	54	98.97	11 22	15.58	41	7.15	13 10
14.39	27	15.30	7 20	15.58	22	82.68	19 23	15.24	3	89.91	16 37	15.58	56	99.25	17 15	15.58	43	7.52	15 24
14.39	27	15.31	4 01	14.51	22	82.76	15 08	11.96	5	90.35	19 08	15.58	57	99.43	13 18	14.22	43	7.59	11 56
13.29	27	15.33	5 16	13.37	23	82.91	10 49	15.58	6	90.54	16 48	15.24	58	99.68	10 33	15.58	44	7.76	19 39
15.01	30	15.94	8 15	15.58	25	83.22	15 10	14.34	8	90.84	14 25	15.58	59	99.89	16 34	14.51	46	8.04	11 56
15.58	47 46	76.50	18 39	13.50	25	83.24	11 57	15.58	8	90.85	16 29	14.85	50 1	0.13	17 22	13.50	48	8.55	19 02
15.58	47	76.61	18 12	15.39	25	83.29	13 54	14.85	11	91.32	13 03	13.42	1	0.21	17 43	14.34	49	8.70	13 24
15.24	48	76.74	16 16	15.58	26	83.50	16 14	15.58	12	91.52	17 07	15.39	2	0.30	17 58	15.58	50	8.84	17 54
15.58	48	76.84	19 58	14.71	28	83.87	19 19	15.01	14	91.95	13 23	15.39	2	0.38	18 19	15.24	52	9.08	17 46
15.58	49	76.88	10 23	15.24	30	84.09	12 29	14.22	16	92.18	10 55	15.24	3	0.50	13 35	14.71	53	9.28	16 43
13.82	51	77.30	18 12	15.01	30	84.25	17 03	11.04	17	92.35	19 23	15.58	4	0.69	17 31	15.39	53	9.40	13 25
13.87	51	77.33	13 46	15.58	31	84.26	16 02	15.24	17	92.51	17 03	15.58	6	1.00	10 04	8.06	54	9.58	19 06
10.80	52	77.40	18 26	13.87	31	84.37	10 24	14.65	17	92.51	14 49	14.34	6	1.15	18 31	12.31	56	9.81	18 34
15.58	54	77.90	13 59	14.34	32	84.52	18 26	14.51	19	92.69	13 06	15.58	7	1.16	16 20	15.24	56	9.88	15 56
15.58	55	77.96	13 04	13.96	32	84.55	16 14	15.58	22	93.23	17 06	15.58	8	1.41	10 38	13.82	56	9.92	15 08
15.58	55	77.97	17 07	14.34	33	84.76	13 03	15.58	22	93.29	13 46	13.96	8	1.45	10 48	14.22	57	10.01	14 27
15.58	55	77.98	11 07	14.22	34	84.77	19 45	15.58	22	93.31	13 26	14.06	8	1.50	14 58	14.39	59	10.34	12 31
15.58	55	78.00	14 38	12.68	34	84.87	18 53	15.58	24	93.64	16 11	15.58	9	1.57	16 35	13.96	51 0	10.49	12 38
13.87	56	78.20	15 42	15.01	35	84.98	15 34	13.96	24	93.68	13 53	14.34	10	1.69	15 48	14.85	0	10.58	17 12
13.82	57	78.36	10 28	15.08	35	85.10	10 46	15.24	26	94.05	19 35	15.39	11	1.87	15 53	11.62	1	10.72	14 13
14.71	57	78.42	10 51	15.39	36	85.23	14 35	11.96	28	94.36	18 34	14.12	11	1.89	15 03	14.22	1	10.77	19 47
15.01	58	78.47	19 42	15.58	37	85.39	13 46	14.71	28	94.43	17 45	12.49	11	1.91	12 19	14.65	2	10.97	15 40
14.51	58	78.57	14 20	13.82	37	85.44	18 53	15.39	29	94.48	16 14	15.58	12	2.10	19 01	15.39	2	10.99	16 38
13.37	59	78.76	15 58	15.58	38	85.54	17 53	11.79	29	94.53	16 59	15.24	12	2.11	17 37	15.58	3	11.16	12 48
14.22	48 0	78.82	13 49	14.06	39	85.72	16 06	12.80	30	94.70	11 32	14.71	14	2.41	14 10	15.58	4	11.23	16 52
11.45	0	78.83	10 11	15.01	39	85.74	15 41	15.58	31	94.90	14 29	15.58	14	2.42	19 41	14.12	4	11.30	17 06
15.58	1	79.00	13 00	15.58	40	85.99	17 35	15.39	34	95.36	14 42	14.51	17	2.98	12 04	15.58	4	11.32	10 44
15.58	2	79.16	16 14	12.68	41	86.12	11 34	14.39	34	95.46	16 02	15.24	18	3.18	14 23	13.08	6	11.58	19 12
15.39	2	79.25	16 11	14.39	42	86.20	13 40	15.58	35	95.52	11 03	14.71	18	3.19	12 48	15.58	6	11.69	11 01
15.58	3	79.42	16 06	13.96	42	86.28	13 30	15.58	35	95.62	18 26	12.31	19	3.40	14 08	14.34	9	12.15	11 36
14.22	4	79.55	14 41	14.39	43	86.40	13 39	15.58	37	95.90	18 02	11.96	19	3.41	10 44	10.37	11	12.42	18 43
13.21	4	79.56	13 21	10.87	45	86.75	17 08	15.39	39	96.29	11 59	14.39	20	3.48	15 38	13.96	12	12.66	18 51

25 prec. + 59 sec. + 7′ 2″.

21^h **Area 41.** $+45^{\circ}$

1001—1010				1011—1014			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″
13.64	51 13	12.77	16 20	15.39	51 26	15.17	14 23
14.06	13	12.86	19 28	13.42	27	15.39	11 41
15.58	14	12.98	18 03	13.16	28	15.46	16 00
14.39	15	13.18	16 54	15.58	30	15.80	14 49
14.65	17	13.62	16 30				
15.58	20	14.16	15 13				
14.51	21	14.30	14 33				
14.65	21	14.31	11 40				
15.24	21	14.35	18 31				
14.22	25	14.92	18 44				

25 prec. + 59 sec. + 7′ 4″.

22^h Area 42. Centre for 1900: $22^h\ 49^m + 45^{\circ}\ 10'$. $+44^{\circ}$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.68	46 52	77.37	51 32	15.17	47 18	82.02	54 16	14.44	47 54	88.29	58 53	15.70	48 25	93.88	53 26	15.01	48 56	99.30	57 28
15.62	55	77.79	57 40	16.04	20	82.21	52 42	15.41	55	88.46	56 31	16.04	26	94.01	58 19	16.04	57	99.44	52 52
14.89	56	78.10	59 29	16.04	20	82.34	54 42	15.85	57	88.90	50 38	15.17	27	94.16	58 09	13.30	57	99.46	59 17
15.29	57	78.18	58 29	16.04	21	82.49	53 17	15.85	59	89.16	55 26	15.62	28	94.42	59 29	16.04	57	99.51	56 30
15.41	58	78.32	51 11	14.81	24	83.04	53 38	14.15	48 0	89.35	59 22	15.85	29	94.48	50 33	16.04	58	99.59	59 09
13.64	58	78.46	53 23	14.70	24	83.04	51 34	13.30	1	89.63	57 30	15.09	29	94.51	56 40	14.33	59	99.80	50 22
15.49	59	78.63	51 05	16.04	26	83.27	58 09	16.04	3	89.91	55 39	15.49	29	94.53	56 32	15.85	49 0	99.98	52 25
13.47	47 0	78.72	53 10	13.64	26	83.31	58 57	13.47	5	90.31	51 43	16.04	30	94.71	50 48	15.37	0	99.99	50 44
16.04	0	78.75	57 10	13.57	26	83.40	53 46	14.59	7	90.57	58 25	12.48	30	94.71	57 56	14.78	2	0.38	58 49
16.04	0	78.76	56 31	15.29	29	83.95	57 40	14.89	8	90.72	53 23	14.59	31	94.93	53 20	13.47	6	1.14	50 29
13.13	1	78.98	50 27	14.51	34	84.84	51 17	15.85	8	90.80	51 59	15.17	35	95.60	52 03	14.51	7	1.28	54 12
8.92	2	79.14	58 52	16.04	36	85.08	55 29	14.62	8	90.82	58 38	13.47	36	95.66	57 33	15.58	7	1.28	53 59
9.05	4	79.48	57 31	14.97	36	85.08	54 45	16.04	9	90.90	59 03	16.04	36	95.77	51 27	14.78	8	1.47	54 23
15.01	4	79.48	56 30	16.04	37	85.34	53 23	15.41	9	90.94	50 44	10.16	37	95.89	53 51	14.51	10	1.72	56 36
15.62	5	79.65	54 41	16.04	39	85.59	57 47	14.44	9	91.06	59 46	14.62	37	95.95	50 10	16.04	12	2.17	53 15
14.89	5	79.66	50 42	14.26	39	85.63	52 50	15.70	10	91.17	54 38	15.85	39	96.29	56 55	16.04	13	2.27	57 00
12.80	5	79.67	52 20	15.49	41	86.07	53 13	14.62	10	91.22	58 03	16.04	39	96.34	52 32	16.04	16	2.76	53 11
15.70	6	79.84	58 18	16.04	41	86.09	51 58	15.58	11	91.32	52 58	16.04	44	97.15	58 16	15.21	16	2.82	55 50
15.70	7	80.00	58 05	14.40	42	86.11	58 51	14.51	11	91.40	54 08	13.30	45	97.30	55 21	15.09	17	3.09	53 44
14.59	8	80.15	58 33	14.89	42	86.18	59 49	14.89	12	91.44	50 16	15.41	45	97.34	58 43	14.22	19	3.39	51 57
15.58	10	80.49	50 14	16.04	43	86.31	55 26	15.70	12	91.55	52 29	13.67	47	97.64	59 58	14.89	20	3.60	53 34
14.97	11	80.66	59 29	16.04	43	86.32	59 37	16.04	15	92.05	55 22	14.81	47	97.67	50 48	16.04	22	3.87	52 03
13.13	12	80.83	55 27	15.29	43	86.32	59 19	16.04	16	92.16	51 59	15.85	47	97.70	54 32	15.37	22	3.98	56 25
15.70	12	80.94	59 00	15.09	45	86.81	59 42	15.62	17	92.43	52 51	16.04	48	97.88	55 02	15.58	23	4.03	58 04
15.70	14	81.19	52 13	15.58	46	86.88	54 52	16.04	20	92.85	51 45	13.74	49	97.97	52 01	11.80	23	4.14	50 43
15.21	14	81.27	56 12	15.29	48	87.18	56 10	15.29	20	92.97	53 52	15.21	52	98.54	52 18	15.37	25	4.43	56 18
13.47	15	81.46	51 57	14.40	49	87.39	56 26	14.33	21	93.07	57 38	13.54	54	98.92	59 42	15.01	25	4.47	58 58
15.29	17	81.70	56 07	15.49	51	87.75	57 08	15.70	24	93.60	54 32	15.29	55	99.06	59 27	14.05	26	4.64	55 30
15.29	17	81.79	55 17	15.29	51	87.83	55 38	11.80	24	93.61	54 58	16.04	55	99.09	54 32	16.04	27	4.70	54 35
16.04	18	81.91	52 46	14.97	52	88.03	55 25	12.48	24	93.65	51 37	14.70	55	99.18	58 48	13.13	27	4.76	50 20

25 prec. + 66 sec. + 7′ 57″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$ $y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
16.04	49 27	4.78	54 24	13.64	50 16	13.45	53 05	14.89	47 27	83.54	4 50	16.04	48 27	94.23	9 35	14.44	49 14	2.50	7 21
15.01	29	5.12	54 40	13.98	16	13.54	54 22	16.04	28	83.72	2 05	13.13	27	94.25	1 00	14.40	16	2.80	5 28
15.01	29	5.20	57 22	14.81	18	13.75	50 15	16.04	29	83.87	1 01	16.04	28	94.38	9 58	15.37	16	2.81	7 02
13.91	30	5.24	56 00	13.30	19	14.01	51 16	16.04	29	83.90	2 21	11.62	28	94.38	1 55	15.49	18	3.22	4 47
16.04	30	5.37	56 38	15.62	21	14.34	55 53	15.41	31	84.33	0 38	14.26	31	94.88	0 52	14.62	20	3.45	4 29
16.04	31	5.46	53 13	16.04	23	14.65	52 33	15.70	32	84.54	5 24	15.37	32	95.01	4 12	11.50	21	3.68	2 44
15.70	33	5.77	59 28	16.04	23	14.74	54 38	16.04	32	84.56	0 42	15.58	32	95.03	7 10	16.04	23	4.11	3 22
14.97	33	5.85	54 15	16.04	24	14.79	54 20	14.78	33	84.61	0 54	15.62	32	95.05	3 30	14.89	26	4.67	4 08
15.85	33	5.90	56 12	15.62	24	14.86	56 38	16.04	33	84.68	5 40	14.51	34	95.33	3 40	15.29	27	4.82	7 28
12.64	34	5.93	56 33	16.04	24	14.92	56 21	15.49	37	85.29	2 57	15.41	34	95.34	5 19	15.29	28	4.89	3 55
16.04	36	6.46	59 42	16.04	25	15.00	53 43	15.70	38	85.60	5 24	15.85	34	95.41	1 15	16.04	30	5.26	3 36
14.12	40	7.12	59 52	16.04	25	15.09	52 16	15.85	39	85.64	5 11	15.37	34	95.42	6 01	14.33	30	5.29	0 49
15.85	41	7.18	57 28	15.29	26	15.14	59 19	13.71	39	85.77	4 11	16.04	35	95.54	3 59	13.98	31	5.42	8 50
16.04	42	7.37	53 03	14.62	27	15.34	58 47	15.37	41	86.05	5 10	16.04	35	95.67	4 07	14.81	31	5.42	7 22
15.01	44	7.80	52 25	16.04	27	15.46	52 52	16.04	42	86.14	3 00	15.70	36	95.70	2 08	15.37	31	5.46	3 20
16.04	44	7.87	57 26	13.47	28	15.63	51 00	14.51	42	86.26	5 00	14.15	36	95.83	8 25	15.85	32	5.59	2 48
14.15	46	8.05	55 04	14.89	29	15.78	53 22	14.89	43	86.46	2 54	16.04	37	95.91	3 57	15.70	32	5.69	4 18
14.97	46	8.23	53 01	16.04	31	16.11	55 14	15.29	47	87.11	0 51	14.51	40	96.54	8 48	15.41	33	5.79	3 39
15.09	46	8.23	51 38	15.21	31	16.15	57 37	14.59	47	87.14	7 29	13.30	41	96.59	4 24	16.04	34	6.02	9 50
15.70	47	8.36	55 32	13.81	32	16.21	56 37	14.89	48	87.35	7 21	16.04	42	96.82	6 26	15.70	36	6.38	3 03
15.29	48	8.46	53 17	16.04	32	16.34	55 29	15.49	52	88.04	7 06	12.80	42	96.84	9 54	14.81	39	6.94	0 31
13.88	50	8.76	53 31	15.49	33	16.43	53 59	15.21	53	88.21	6 17	15.01	43	96.99	8 48	14.89	40	6.99	7 37
15.85	50	8.77	50 41	14.15	34	16.60	56 07	16.04	53	88.21	8 06	14.70	43	97.05	8 54	16.04	40	7.06	0 10
14.33	50	8.88	56 12	16.04	46 52	77.31	1 02	16.04	55	88.49	2 46	9.06*	45	97.36	9 41	13.81	41	7.23	8 24
16.04	50	8.89	51 04	14.15	56	78.06	7 35	13.81	56	88.65	6 21	13.81	47	97.68	0 04	11.16	42	7.36	9 38
13.47	51	9.06	50 52	14.78	56	78.12	8 03	14.97	56	88.73	8 30	14.05	47	97.70	1 46	14.44	43	7.67	8 39
15.85	52	9.12	56 19	16.04	47 2	79.25	8 25	16.04?	57	88.85	1 02	16.04	48	97.81	2 25	16.04	46	7.89	5 08
14.70	52	9.17	50 37	15.21	4	79.59	6 09	14.89	58	89.12	2 50	16.04	50	98.20	5 30	16.04	46	7.99	9 15
16.04	54	9.52	57 30	13.74	5	79.72	4 57	15.58	59	89.26	7 19	16.04	50	98.28	6 05	15.37	46	8.12	4 20
16.04	59	10.47	56 54	15.58	7	79.97	5 43	14.44	48 1	89.55	9 55	16.04	50	98.30	6 41	14.05	48	8.38	4 07
16.04	50 0	10.63	58 58	15.09	7	79.98	3 34	15.58?	1	89.61	1 32	11.80	50	98.32	3 45	14.89	49	8.62	6 40
14.33	1	10.77	50 46	14.70	7	80.08	7 04	15.17	2	89.73	9 34	16.04	53	98.74	7 29	15.09	51	8.92	8 35
14.78×	1	10.85	57 02	16.04	8	80.15	1 02	15.17	4	90.13	4 26	15.85	53	98.76	7 00	14.51	52	9.23	7 13
13.81	5	11.55	51 01	13.13	9	80.35	6 23	15.21	5	90.24	7 01	11.65	54	98.89	9 15	16.04	53	9.42	5 03
16.04	5	11.56	58 04	15.21	9	80.37	5 31	15.17	8	90.74	5 44	16.04	55	99.07	7 33	15.85	54	9.50	7 23
16.04	6	11.73	58 17	16.04	10	80.57	3 51	16.04	10	91.21	3 54	16.04	56	99.32	8 57	14.59	56	9.84	2 22
15.29	8	11.97	52 22	15.29	12	80.91	2 17	14.81	10	91.26	9 04	15.29	59	99.89	8 40	14.51	57	10.08	5 17
12.48	8	12.09	52 37	12.48	12	80.95	6 22	14.37	11	91.34	0 04	15.09	49 0	99.91	8 26	16.04	59	10.34	2 34
16.04	10	12.35	50 55	16.04	13	81.06	4 05	16.04	13	91.64	9 08	15.37	0	0.00	8 32	12.48	50 0	10.67	3 12
15.58	10	12.45	53 33	14.81	15	81.54	9 53	14.44	17	92.34	5 56	16.04	3	0.45	8 18	15.85	0	10.68	5 40
15.85	11	12.60	59 05	15.29	17	81.77	1 36	15.37	18	92.54	7 43	16.04	4	0.72	9 15	11.26	1	10.78	8 59
16.04	11	12.63	54 48	15.85	17	81.86	2 32	14.89	18	92.67	1 42	10.38*	5	0.81	4 27	15.49	2	10.92	2 06
14.15	13	12.91	59 28	14.59	20	82.42	4 41	16.04	19	92.76	9 07	16.04	5	0.96	1 19	11.65	3	11.07	4 38
13.98	13	12.91	57 48	14.89	23	82.89	4 19	13.57	20	92.97	2 46	15.21	8	1.42	8 42	14.05	4	11.34	2 52
16.04	15	13.22	57 21	14.97	24	82.97	5 18	14.81	22	93.36	7 35	15.01	10	1.74	7 01	15.49	5	11.44	6 03
15.37	15	13.25	56 24	14.40	24	82.98	8 47	14.78	22	93.38	2 55	16.04	10	1.77	4 24	15.85	5	11.46	0 02
16.04	15	13.25	56 03	11.50	24	83.03	5 48	12.96	23	93.43	1 25	16.04	11	1.91	5 09	15.85	6	11.56	0 42
15.01	15	13.35	51 27	14.40	25	83.24	1 52	14.81	23	93.51	2 39	13.13	12	2.06	1 14	14.97	6	11.68	2 02
14.89	15	13.35	52 31	14.26	25	83.30	3 18	15.62	24	93.57	0 06	15.62	12	2.17	7 39	15.09	7	11.81	6 49
16.04	16	13.45	50 15	15.66	26	83.42	0 12	15.85	25	93.75	1 12	14.62	14	2.49	3 25	15.70	10	12.28	6 50

25 prec. + 67 sec. + 7′ 57″.

401—450				451—500				501—550				551—600				601—650			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.70	50 11	12.57	3 20	15.49	47 18	82.04	12 31	14.51	48 12	91.61	16 45	15.70	49 28	4.97	10 46	15.09	50 32	16.17	16 49
16.04	13	12.88	4 57	16.04	19	82.20	18 36	15.21	14	91.98	14 08	15.70	31	5.42	17 37	14.81	32	16.24	14 50
15.70	17	13.52	3 21	15.85	20	82.43	15 39	14.70	15	92.12	10 17	15.09	32	5.68	13 35	14.89	33	16.39	16 14
16.04	17	13.54	1 44	15.01	20	82.45	13 19	16.04	18	92.56	14 02	15.37	33	5.79	10 42	11.98	33	16.43	12 54
14.33	17	13.64	6 36	15.70	21	82.55	10 54	16.04	18	92.61	14 17	15.17	33	5.82	10 32	14.78	34	16.52	11 01
16.04	18	13.71	1 16	10.07*	22	82.71	13 47	14.78	19	92.72	14 09	16.04	35	6.19	10 08	14.89	36	16.89	15 12
16.04	18	13.80	3 23	16.04	22	82.83	13 20	13.33	19	92.82	19 34	14.59	35	6.23	15 08	16.04	36	16.93	19 09
15.58	22	14.45	3 49	15.70	24	83.07	18 29	14.05	19	92.84	12 58	15.09	37	6.52	18 26	14.70	36	16.98	10 45
15.49	23	14.65	3 50	16.04	25	83.34	18 08	13.91	20	93.00	19 54	15.21	42	7.35	16 49	13.06	46 50	77.11	20 16
14.81	27	15.34	4 44	14.44	26	83.40	15 58	13.47	21	93.06	16 24	15.41	42	7.43	18 27	13.13	50	77.22	23 08
15.21	27	15.35	8 13	13.13	26	83.40	12 34	15.09	21	93.08	16 29	14.26	43	7.52	13 09	16.04	51	77.41	25 59
13.71	27	15.40	8 24	16.04	27	83.59	14 37	15.62	22	93.28	19 06	15.62	46	8.06	18 55	15.85	52	77.49	20 32
15.41	27	15.42	0 50	12.96	28	83.76	10 20	14.89	25	93.77	15 37	14.81	47	8.20	13 09	16.04	53	77.75	24 47
15.85	28	15.53	0 46	16.04	28	83.84	13 17	15.09	29	94.51	19 19	15.85	48	8.45	17 29	13.40	55	78.03	28 50
16.04	30	15.87	0 42	16.04	28	83.89	14 44	14.33	36	95.75	11 55	16.04	51	9.02	11 12	15.62	55	78.08	22 02
11.80	33	16.33	3 34	15.41	29	83.93	17 50	16.04	37	95.93	19 28	15.37	52	9.13	19 18	12.64	56	78.17	28 52
15.41	33	16.41	4 07	16.04	32	84.46	16 07	14.15	38	96.05	12 01	13.13	54	9.42	16 19	13.98	57	78.38	27 03
13.98	33	16.45	2 58	15.41	32	84.51	12 10	16.04	42	96.80	17 11	14.59	54	9.48	10 24	15.41	47 0	78.86	28 10
16.04	34	16.50	5 45	12.15	33	84.61	11 34	15.21	42	96.91	14 27	14.05	56	9.81	13 10	16.04	1	79.12	28 34
15.17	36	16.85	4 27	15.09	37	85.42	18 45	15.49	43	97.03	16 35	14.97	56	9.81	15 05	12.96	1	79.18	27 37
14.51	46 50	77.11	17 58	15.70	39	85.68	15 47	16.04	47	97.79	15 54	15.17	56	9.85	14 29	16.04	1	79.19	24 57
13.47	50	77.15	11 07	15.21	40	85.85	18 47	15.41	49	98.01	19 25	16.04	58	10.16	12 30	15.37	5	79.74	22 36
14.40	52	77.47	16 25	10.02	42	86.21	16 38	13.30	49	98.10	11 46	15.41	50 0	10.57	12 07	13.30	7	80.24	23 44
16.04	52	77.49	10 55	15.41	48	87.39	16 47	14.51	49	98.12	10 32	15.70	1	10.71	18 16	16.04	8	80.39	27 48
15.49	52	77.52	12 00	16.04	50	87.61	10 31	15.58	50	98.17	12 25	14.89	1	10.73	12 03	16.04	8	80.40	21 17
16.04	53	77.61	17 40	15.29	51	87.90	12 40	15.41	51	98.34	10 31	15.58	8	11.96	10 32	15.29	10	80.71	28 01
15.70	54	77.80	19 52	16.04	51	87.91	13 07	15.21	51	98.42	13 10	16.04	10	12.38	13 47	15.09	13	81.20	26 03
14.89	54	77.88	17 17	16.04	52	88.09	17 09	15.21	51	98.49	16 16	15.41	11	12.44	16 38	15.37	15	81.59	20 20
14.51	55	78.05	12 05	14.08	52	88.11	17 34	14.22	54	98.96	17 24	13.98	13	12.86	19 24	15.62	15	81.59	25 14
14.89	56	78.10	11 07	15.70	53	88.13	18 57	14.51	57	99.43	10 33	12.64	16	13.38	10 18	15.62	16	81.72	21 12
14.89	56	78.11	12 21	14.08	53	88.14	16 37	15.70	58	99.60	18 09	12.80	17	13.58	17 40	15.85	19	82.25	24 18
16.04	58	78.53	11 29	16.04	54	88.30	10 27	14.89	58	99.67	19 48	13.47	18	13.65	10 58	15.62	20	82.44	25 58
15.41	58	78.61	13 28	16.04	54	88.35	19 10	15.85	58	99.71	15 49	16.04	19	13.90	12 05	12.48	20	82.53	23 52
15.09	59	78.75	16 17	16.04	55	88.48	10 20	15.29	59	99.77	10 41	15.70	19	13.91	15 31	15.21	23	82.94	28 56
15.09	47 1	79.05	17 38	14.22	55	88.48	19 46	15.01	49 0	99.96	17 11	14.62	20	14.06	19 03	15.85	27	83.67	24 11
13.64	1	79.09	15 57	15.85	56	88.78	18 55	15.85	0	0.07	13 16	16.04	22	14.39	15 07	14.51	29	83.99	20 50
12.80	1	79.11	15 13	15.17	57	88.85	14 16	11.37	1	0.19	16 32	12.31	22	14.40	11 15	13.30	30	84.22	24 19
14.59	2	79.27	16 18	13.57	59	89.18	17 05	16.04	2	0.34	12 21	14.51	23	14.55	17 47	14.33	30	84.24	24 52
13.13	4	79.60	18 52	16.04	59	89.34	15 12	15.70	3	0.51	12 49	14.62	23	14.64	12 06	15.58	30	84.24	28 55
15.85	4	79.63	18 22	15.58	48 0	89.48	16 23	14.89	4	0.79	15 59	16.04	24	14.79	15 06	11.62	30	84.26	21 33
16.04	5	79.75	10 29	14.97	0	89.52	10 37	15.62	6	0.99	19 06	15.41	24	14.83	19 46	15.37	31	84.42	23 51
16.04	5	79.77	10 16	13.13	2	89.85	12 26	14.05	9	1.56	19 12	15.85	25	14.93	16 56	16.04	34	84.89	27 11
16.04	5	79.81	15 33	14.33	8	90.77	11 31	15.49	10	1.72	14 47	14.05	26	15.07	14 31	14.81	38	85.68	26 54
15.29	7	80.03	13 32	13.91	8	90.83	11 38	16.04	12	2.03	13 48	16.04	27	15.33	18 55	15.37	39	85.74	28 15
15.62	7	80.04	16 17	14.62	8	90.84	19 07	15.62	18	3.19	17 06	16.04	28	15.45	19 41	15.21	39	85.77	25 09
15.85	9	80.44	14 12	11.36	9	91.00	11 27	15.37	20	3.59	15 46	15.70	29	15.59	10 13	14.89	41	86.08	28 51
12.06	12	80.94	16 54	15.70	10	91.24	19 05	11.20	21	3.77	11 50	14.70	29	15.64	13 06	11.66	41	86.14	23 45
12.80	13	81.10	16 12	16.04	10	91.28	12 38	14.81	24	4.27	11 20	15.41	29	15.71	13 30	13.91	44	86.57	27 33
10.91	14	81.25	10 22	14.81	11	91.37	10 30	15.58	25	4.37	12 19	16.04	30	15.80	18 25	16.04	45	86.79	22 10
15.17	17	81.92	16 43	14.70	11	91.38	15 35	14.44	28	4.94	17 51	15.41	30	15.92	14 33	15.85	45	86.86	27 47

25 prec. + 66 sec. + 7′ 57″.

651—680				681—710				711—740				741—770				771—788			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	'	' ''		m s	'	' ''		m s	'	' ''		m s	'	' ''		m s	'	' ''
15.85	47 46	87.06	25 08	16.04	48 45	97.33	29 12	16.04	49 5	0.83	26 45	12.03	49 44	7.68	24 21	13.88	50 18	13.61	23 04
14.33	49	87.59	26 36	15.70	45	97.36	21 48	14.78	6	0.99	28 23	15.70	44	7.73	23 09	14.66	18	13.66	20 18
14.51	49	87.59	22 24	16.04	46	97.56	24 31	16.04	6	1.01	29 55	16.04	46	8.05	20 10	14.89	18	13.73	27 20
16.04	51	87.89	20 04	16.04	47	97.69	21 48	15.58	8	1.31	22 08	14.81	47	8.29	22 01	16.04	23	14.62	21 28
15.01	51	87.95	22 06	13.30	47	97.74	23 03	15.85	8	1.48	21 01	16.04	47	8.33	22 56	16 04	23	14.65	25 45
16.04	51	87.97	27 46	14.33	48	97.83	24 31	16.04	9	1.52	22 01	13.64	48	8.47	20 27	15 37	25	14.85	26 03
16.04	54	88.44	22 46	15.21	48	97.89	22 32	15.70	9	1.55	26 44	14.51	49	8.54	28 54	15 58	26	15.15	29 34
13.88	57	88.92	26 24	16.04	49	98.06	23 17	12.96	9	1.60	22 33	15.70	55	9.60	26 34	14.40	27	15.25	23 42
11.98	48 0	89.40	29 41	15.09	50	98.19	29 13	15.37	9	1.62	25 54	16.04	55	9.71	25 11	15.49	28	15.36	25 02
15.41	2	89.80	29 21	14.59	50	98.25	28 05	15.29	10	1.80	28 32	15.70	57	10.02	26 03	13.98	28	15.43	28 43
14.44	2	89.81	23 58	15.41	50	98.31	26 44	14.08	11	1.87	25 35	15.21	57	10.04	29 51	16.04	31	15.95	26 43
16.04	4	90.12	28 25	15.29	50	98.32	24 45	16.04	12	2.08	29 57	16.04	58	10.22	27 53	15.41	32	16.09	25 42
16.04	6	90.49	27 05	16.04	51	98.46	26 31	16.04	13	2.27	26 35	14.81	59	10.37	28 46	14.62	34	16.42	21 28
14.97	6	90.59	28 27	15.62	52	98.68	24 05	16.04	16	2.89	25 37	15.21	50 0	10.47	22 44	16.04	34	16.54	29 48
16.04	12	91.57	24 10	16.04	53	98.76	25 05	16.04	18	3.16	28 20	15.85	4	11.30	27 10	15.62	35	16.66	27 28
15.62	14	92.02	25 49	16.04	54	98.91	20 37	15.70	18	3.20	20 22	13.64	5	11.40	28 26	16.04	35	16.68	29 48
15.01	18	92.61	29 49	14.89	54	99.11	27 19	16.04	19	3.31	20 32	14.89	5	11.47	24 07	11.90	35	16.68	22 13
16.04	19	92.75	26 03	14.44	55	99.17	26 45	14.97	20	3.54	22 07	15.41	8	11.91	22 41	15.85	36	16.82	24 35
16.04	20	93.05	25 29	16.04	56	99.21	20 14	16.04	21	3.65	24 50	14.40	8	11.98	24 49				
15.09	22	93.24	26 52	12.80	56	99.31	21 49	14.59	22	3.83	26 41	16.04	8	11.98	22 27				
15.49	22	93.33	22 16	13.81	57	99.40	25 07	11.57	22	3.90	23 54	14.26	9	12.17	25 14				
15.85	24	93.65	22 22	16.04	57	99.53	26 29	16.04	24	4.21	29 36	15.37	11	12.44	24 05				
13.91	30	94.69	25 28	15.85	57	99.53	21 41	16.04	26	4.62	29 40	16.04	12	12.58	23 21				
15.49	30	94.82	26 20	15.21	58	99.69	27 50	16.04	33	5.77	26 15	15.70	13	12,80	22 58				
15.17	32	95.17	23 17	14.81	59	99.83	24 30	16.04	34	5.95	20 55	14.81	14	12.95	29 51				
15.85	35	95.65	24 40	15.85	49 0	99.91	21 17	14.78	36	6.33	27 11	15.09	14	13.03	27 44				
15.85	35	95.69	21 10	14.62	0	99.96	25 11	14.05	36	6.41	24 45	16.04	14	13.04	24 55				
15.70	36	95.76	25 44	14.78×	0	0.07	22 32	14.78	38	6.70	23 44	14.70	14	13.05	26 38				
14.78	40	96.49	20 44	14.51	2	0.42	26 52	13.64	42	7.37	21 43	16.04	15	13.08	22 37				
14.51	44	97.26	27 17	14.81	3	0.60	29 09	15.62	44	7.65	29 22	14.70	16	13.36	26 54				

25 prec. + 66 sec. + 7′ 57″.

23^h Area 43. Centre for 1900: $23^h\ 50^m + 44^\circ\ 50'$. $+ 44^\circ$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$
	m s	'	' ''		m s	'	' ''		m s	'	' ''		m s	'	' ''		m s	'	' ''
14.32	48 4	79.41	39 20	14.59	48 26	83.35	33 29	14.99	48 45	86.70	38 31	11.80	49 0	89.33	36 09	14.90	49 25	93.83	36 02
14.32	9	80.20	38 26	13.26	27	83.39	38 21	14.45	45	86.70	37 34	14.68	0	89.38	39 26	15.13	27	94.14	35 00
15.47	9	80.30	39 51	10.16	29	83.87	33 43	15.47	45	86.72	31 58	14.68	6	90.33	33 12	12.56	29	94.44	32 14
15.04	10	80.35	36 31	12.56	30	83.93	35 57	15.13	46	86.91	36 50	14.77	6	90.34	35 02	13.38	29	94.50	34 55
14.10	12	80.85	36 25	14.59	33	84.47	32 45	15.47	50	87.59	30 57	13.30	7	90.55	31 35	15.47	35	95.57	33 28
14.99	17	81.68	33 49	12.89	34	84.62	37 06	15.47	52	87.86	35 13	15.28	13	91.62	32 45	15.47	37	95.83	37 23
13.51	21	82.36	30 53	15.47	34	84.69	30 32	15.28	53	88.06	35 07	13.72	13	91.66	37 52	14.45	38	96.17	35 52
14.68	21	82.46	39 14	15.47	40	85.70	39 50	15.13	54	88.27	34 30	15.04	16	92.15	35 16	15.13	41	96.59	32 16
15.13	24	82.85	38 32	15.47	42	86.03	35 30	14.10	59	89.12	38 14	13.05	17	92.28	34 33	15.28	41	96.70	35 42
12.36	26	83.18	38 57	12.89	45	86.66	37 46	12.17	49 0	89.31	33 49	15.47	18	92.56	36 45	14.14	43	97.00	32 54

25 prec. + 75 sec. + 8′ 21″.

Area 43.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.99	49 45	97.40	32 16	13.51	51 4	11.36	34 05	15.13	48 57	88.79	42 24	15.47	50 40	7.03	43 14	14.81	48 30	84.16	53 33
14.54	46	97.53	37 46	15.47	5	11.58	37 44	15.47	58	89.00	46 38	13.09	41	7.26	40 36	15.47	31	84.17	57 57
14.59	48	97.88	39 29	14.81	7	11.98	30 27	14.54	59	89.09	40 44	15.47	41	7.31	47 49	14.81	31	84.23	58 45
14.14	49	97.98	34 52	13.38	14	13.09	31 28	13.80	59	89.25	45 40	11.80	42	7.43	40 57	12.56	31	84.23	59 07
12.76	51	98.38	38 25	14.32	14	13.18	31 03	15.47	49 5	90.15	47 35	15.47	51	9.03	43 51	14.90	36	85.16	52 32
15.47	51	98.47	33 40	14.59	16	13.59	37 23	14.23	5	90.17	45 59	14.81	53	9.40	42 49	14.59	41	85.96	52 33
13.38	59	99.86	31 19	14.77	19	14.06	31 22	15.28	5	90.29	42 22	14.32	56	9.90	45 05	15.28	43	86.41	51 10
14.54	50 1	0.18	31 08	14.59	20	14.16	34 52	10.00*	9	90.88	48 00	14.81	58	10.34	45 05	15.47	45	86.65	57 51
15.47	3	0.60	37 50	15.04	21	14.37	34 22	11.98	11	91.26	43 48	15.47	51 6	11.69	48 18	14.45	45	86.76	59 43
14.68	5	0.91	38 43	15.47	25	15.15	37 52	13.80	12	91.56	45 14	15.13	7	11.93	45 35	14.36	48	87.34	54 08
15.47	6	1.12	39 07	15.47	29	15.80	39 02	15.47	13	91.72	44 28	15.28	8	12.11	45 50	14.36	50	87.62	58 08
15.28	8	1.49	34 54	14.45	29	15.83	37 27	14.68	18	92.52	45 35	13.72	10	12.50	49 39	15.47	51	87.75	55 31
12.17	9	1.52	33 09	15.28	30	16.05	35 30	11.27	20	92.93	44 47	15.47	12	12.70	49 30	15.28	52	88.04	59 34
15.47	12	2.15	39 48	14.99	31	16.18	38 28	14.59	20	92.98	47 36	12.68	14	13.17	42 16	14.77	53	88.13	56 06
15.13	13	2.31	37 06	15.47	34	16.67	31 45	14.68	28	94.23	44 51	14.68	16	13.50	49 36	14.81	49 0	89.35	56 55
11.44	13	2.31	36 20	14.81	35	16.83	34 38	15.47	28	94.27	46 13	14.41	16	13.58	49 44	14.32	1	89.48	53 22
14.81	13	2.32	31 18	14.68	35	16.87	37 12	15.13	31	94.86	47 28	14.90	17	13.69	48 46	14.81	2	89.65	50 48
13.26	15	2.71	35 03	14.81	40	17.71	36 38	14.14	33	95.20	45 49	13.72	17	13.73	46 00	14.23	2	89.67	54 06
13.59	16	2.90	30 36	12.36	40	17.78	32 03	12.76	38	96.03	49 23	14.77	21	14.37	44 20	14.01	4	90.09	56 14
15.47	17	3.01	36 26	14.90	45	18.74	34 37	13.67	39	96.30	43 25	15.47	23	14.78	48 23	14.23	5	90.27	50 04
14.90	17	3.11	37 54	15.47	46	18.85	36 55	11.62	40	96.40	49 57	15.04	25	15.15	49 42	14.23	6	90.35	57 38
14.99	19	3.40	34 57	14.32	46	18.91	33 35	14.36	41	96.57	41 15	11.44	26	15.34	46 16	14.45	8	90.77	55 39
15.47	20	3.56	33 48	14.68	48 5	79.60	49 32	14.14	42	96.86	48 05	14.14	28	15.58	41 54	14.68	12	91.42	58 08
11.62	22	3.86	35 31	15.13	6	79.80	40 47	15.13	45	97.28	40 42	14.32	29	15.74	43 03	15.28	12	91.46	54 33
14.68	24	4.20	35 35	15.04	7	79.90	42 02	15.47	47	97.74	42 56	12.89	29	15.88	46 30	14.36	14	91.81	51 37
14.68	25	4.52	30 33	13.72	8	80.11	42 45	15.04	50	98.22	42 57	15.47	30	15.97	48 15	14.54	14	91.85	51 49
15.47	26	4.55	39 29	15.28	10	80.47	45 52	13.67	50	98.23	43 58	15.19	31	16.19	40 16	15.28	16	92.15	57 12
13.72	27	4.84	30 40	15.47	13	80.99	49 35	13.89	56	99.30	47 35	14.59	32	16.25	47 37	15.47	22	93.33	55 41
15.28	30	5.40	30 20	13.51	13	81.06	44 29	15.47	57	99.48	44 31	14.45	32	16.26	43 11	14.54	23	93.39	56 07
15.47	31	5.45	30 59	15.47	15	81.29	40 58	15.28	58	99.73	47 13	14.23	33	16.50	44 33	15.13	24	93.56	58 49
15.13	31	5.50	31 54	14.59	17	81.70	41 08	15.28	50 0	0.09	44 55	14.36	34	16.69	45 04	14.81	29	94.57	53 21
12.56	31	5.54	33 37	8.17*	20	82.21	43 58	14.81	5	0.84	44 09	14.59	35	16.91	45 24	14.77	32	95.13	50 14
14.81 ×	31	5.58	39 16	15.13	20	82.27	41 53	14.54	5	0.96	42 23	13.72	38	17.46	44 33	14.41	33	95.25	50 22
14.01	33	5.87	36 59	15.13	23	82.82	44 45	12.36	6	1.03	40 49	15.28	38	17.47	48 41	15.28	34	95.48	56 07
15.47	33	5.93	34 15	15.28	26	83.33	44 23	15.28	7	1.18	40 55	14.36	39	17.53	42 38	14.59:	35	95.65	57 54
14.59	35	6.15	34 49	15.47	27	83.57	41 29	14.81	11	2.02	41 26	15.47	41	17.87	47 35	14.81	40	96.44	50 34
14.23	35	6.21	37 53	15.47	28	83.60	42 25	12.56	13	2.32	48 08	15.04	45	18.58	42 52	14.68	42	96.85	57 56
15.04	36	6.40	37 54	15.28	32	84.38	41 42	14.01	16	2.76	46 30	10.55	46	18.88	45 01	15.13	46	97.44	50 35
11.10	38	6.70	37 48	14.99	33	84.62	45 57	13.80	16	2.76	42 44	14.32	48 12	80.95	53 41	14.59	47	97.72	58 49
14.59	40	7.10	32 10	15.28	34	84.74	41 18	14.81	17	2.97	45 28	15.47	14	81.30	52 16	12.17	47	97.73	51 56
14.68	41	7.33	33 09	12.36	34	84.76	49 24	14.23	19	3.31	49 03	14.14	18	81.91	54 10	14.68	51	98.45	57 11
14.36	43	7.63	33 11	14.90	36	85.07	41 09	14.01	20	3.61	45 50	14.10	18	81.95	57 58	13.26	54	98.89	55 28
10.47	44	7.76	33 41	11.98	38	85.36	49 20	14.77	21	3.81	48 35	14.14	22	82.61	57 21	14.59	54	99.00	58 55
13.51	45	8.06	33 15	15.04	41	86.01	43 41	12.76	22	3.90	49 19	14.59	22	82.61	55 00	9.75*	55	99.04	50 12
12.17	49	8.76	39 30	15.47	42	86.21	48 46	12.36	22	3.91	43 15	15.04	22	82.62	51 21	14.14	55	99.15	53 20
14.32	51	9.09	36 01	12.17	43	86.27	42 17	14.81	30	5.36	48 50	13.67	24	83.06	54 47	15.28	50 1	0.13	55 04
13.17	52	9.26	38 34	14.81	48	87.18	49 18	14.59	32	5.70	45 11	13.93	25	83.10	52 26	14.77	1	0.21	52 07
15.47	51 0	10.76	38 02	14.77	53	88.05	47 40	14.99	32	5.77	43 44	15.47	27	83.50	53 01	14.90	3	0.59	51 20
15.04	2	11.02	30 22	14.90	53	88.12	41 30	12.76	33	5.85	47 11	14.77	28	83.73	55 58	14.90	7	1.16	50 55
15.47	3	11.18	31 46	14.10	54	88.21	47 16	14.45	37	6.61	44 59	14.36	29	83.82	54 47	15.47	9	1.60	56 36

25 prec. + 75 sec. + 8′ 21″.

Area 43.

301—340				341—380				381—420				421—460				461—465			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$ / $y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.32	50 11	1.88	51 01	12.68	51 29	15.74	57 46	14.77	49 2	89.68	8 48	14.68	50 28	4.95	5 05	14.59	51 38	17.27	7 21
15.47	11	2.02	51 36	11.98	34	16.57	58 03	15.47	3	89.87	5 48	14.23	33	5.74	6 28	14.68	40	17.71	0 48
14.99	14	2.42	59 14	14.23	36	16.98	53 27	15.28	5	90.21	8 55	15.04	34	6.06	2 56	15.47	42	18.01	5 27
15.47	14	2.55	50 56	14.81	38	17.28	55 52	15.47	8	90.81	3 18	14.99	37	6.47	0 27	12.68	42	18.09	6 21
14.68	21	3.75	53 00	13.17	39	17.53	51 18	15.47	9	90.97	8 52	13.72	38	6.80	1 10	15.47	45	18.58	1 07
13.72	26	4.55	56 06	12.56	40	17.67	56 19	14.77?	14	91.80	6 18	14.81	41	7.26	4 39				
14.45	26	4.68	51 02	15.47	46	18.70	58 02	15.47	23	93.46	0 16	14.77	44	7.72	4 32				
14.54	27	4.70	56 36	14.59	48 4	79.44	2 27	14.81	24	93.73	9 49	15.47	45	7.88	7 12				
15.04	27	4.75	55 54	12.68	5	79.71	5 50	14.23	27	94.19	5 14	15.28	47	8.29	2 36				
13.93	28	5.02	58 44	15.13	6	79.79	9 42	15.13	27	94.21	6 50	14.63	54	9.46	0 23				
14.10	32	5.61	57 53	13.80	7	80.13	5 08	15.28	29	94.49	9 56	14.68	54	9.50	1 58				
13.72	33	5.82	54 33	14.90	8	80.16	6 54	14.99	30	94.62	0 13	12.56	59	10.37	3 18				
15.47	34	5.96	55 27	14.14	10	80.55	1 51	15.28	32	94.97	5 43	15.04	51 1	10.77	2 46				
14.90	34	5.98	56 53	15.47	10	80.60	6 58	14.59	34	95.40	7 08	12.29	2	10.95	9 05				
14.59	35	6.13	56 46	14.77	15	81.38	0 12	14.45	35	95.64	3 16	15.28	4	11.32	9 20				
14.68	37	6.62	57 56	14.77	17	81.80	0 49	13.80	35	95.66	9 02	14.68	5	11.44	4 35				
15.28	40	7.16	51 21	14.14	17	81.83	2 27	13.51	37	95.95	6 55	12.97	7	11.76	0 04				
11.27	40	7.16	52 53	14.81	18	81.95	3 30	15.47	41	96.64	3 03	15.28	8	11.99	0 43				
14.81	44	7.88	53 22	15.47	20	82.28	1 07	11.27	44	97.24	8 07	12.56	11	12.61	0 56				
14.10	45	7.91	56 26	15.04	20	82.37	0 46	15.47	44	97.25	6 52	14.99	13	12.92	6 39				
14.36	46	8.18	58 02	14.59	21	82.53	0 48	15.28	47	97.79	4 20	14.68	14	13.02	4 17				
13.84	46	8.24	59 52	13.89	24	83.13	4 52	15.47	48	97.86	5 41	15.47	15	13.20	4 56				
15.04	48	8.43	50 01	14.36	25	83.16	6 49	14.36	52	98.56	8 04	13.97	16	13.39	0 06				
14.77	53	9.46	54 08	12.48	30	84.09	4 46	14.59	52	98.62	3 54	14.99	18	13.83	2 46				
12.29	56	9.91	58 38	13.05	30	84.12	3 27	14.68	53	98.81	7 51	14.32	19	13.89	9 59				
15.13	56	9.94	50 45	14.45	30	84.14	7 38	13.05	54	98.99	5 16	14.32	21	14.36	7 46				
15.47	57	10.08	56 06	15.13	31	84.36	1 47	15.47	50 0	0.01	5 59	14.68	22	14.39	1 29				
14.77	59	10.43	56 18	15.47	37	85.30	7 26	14.23	5	0.81	3 15	15.13	22	14.55	2 54				
15.47	51 2	10.96	50 16	11.80	37	85.33	4 00	14.90	13	2.34	6 06	15.47	24	14.83	4 16				
15.13	2	11.00	57 09	15.47	37	85.35	9 53	14.81	15	2.57	7 16	15.47	26	15.17	3 03				
13.17	4	11.36	54 26	13.09	42	86.22	8 43	13.59	15	2.67	5 19	15.13?	29	15.71	7 14				
12.64	6	11.74	59 34	13.09	45	86.68	9 21	15.47	16	2.87	2 13	15.13	31	16.03	7 42				
14.59	6	11.77	51 50	15.47	45	86.78	0 04	14.77	17	3.07	5 45	14.68	32	16.16	9 59				
14.81	10	12.47	52 39	11.27	45	86.78	1 24	14.81	18	3.11	1 51	15.47	32	16.25	9 12				
12.89	11	12.62	59 52	13.05	46	87.00	0 08	13.38	18	3.13	7 15	12.68	33	16.36	5 50				
15.28	15	13.24	53 49	14.68	46	87.02	2 26	15.47	18	3.22	4 36	14.68	33	16.49	0 44				
15.28	16	13.46	52 12	15.47	51	87.86	8 28	15.47	19	3.40	8 22	15.47	35	16.83	8 24				
12.76	17	13.69	55 15	15.28	52	88.08	5 00	14.23	20	3.60	0 37	14.14	36	16.89	0 35				
13.59	23	14.77	59 26	14.90	56	88.71	5 04	14.77	24	4.20	4 13	12.56	37	17.15	7 46				
15.47	26	15.14	55 14	14.54	49 0	89.37	5 38	14.59	24	4.22	8 33	14.68	37	17.18	1 00				

25 prec. + 75 sec. + 8′ 21″.

Area 44. Centre for 1900: 0^h 24^m + 30° 10′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$ $y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.37	21 59	73.74	47 28	13.21	25 18	16.98	43 19	15.27	23 50	97.92	52 19	14.93	22 11	76.36	4 16	14.25	24 55	11.95	4 16
13.30	22 4	74.74	47 25	15.36	21	17.65	40 19	15.90	56	99.15	56 24	13.74	14	77.06	0 04	13.90	59	12.76	1 12
15.90	8	75.66	48 25	15.90	29	19.41	47 34	14.25	24 1	0.15	57 50	13.64	17	77.78	5 38	14.25	25 6	14.35	8 23
15.09	13	76.73	42 11	15.90	30	19.45	48 17	13.44	1	0.25	53 17	13.00	21	78.58	3 00	15.90	12	15.61	8 32
14.25	28	80.01	48 28	12.75	33	20.14	40 35	15.27	2	0.40	52 16	15.71	22	78.76	8 44	15.90	20	17.19	0 08
13.40	29	80.35	44 17	15.71	47	23.20	49 28	11.00	4	0.93	52 58	15.90	27	79.89	5 49	15.90	24	18.06	7 17
14.19	30	80.53	44 15	15.90	50	23.87	46 50	15.90	5	1.05	56 52	14.50	30	80.55	7 42	14.50	31	19.63	6 26
14.07	35	81.63	42 48	14.07	57	25.42	40 30	14.93	6	1.25	54 46	15.56	37	81.97	5 47	12.67	34	20.28	6 25
11.74	38	82.22	49 12	14.37	26 1	26.25	47 35	13.96	12	2.50	57 50	15.27	37	82.05	5 46	15.90	37	20.98	2 55
15.27	43	83.30	47 26	13.17	2	26.48	49 08	15.90	13	2.81	52 28	15.27	40	82.63	6 10	14.93	44	22.44	8 27
15.09	45	83.77	48 07	11.96	2	26.57	42 47	13.40	17	3.68	50 54	14.69	46	83.89	4 14	13.54	45	22.71	0 28
15.56	48	84.27	41 17	14.19	4	26.90	46 48	13.08	18	3.86	51 33	15.09	49	84.69	6 48	14.93	50	23.77	7 20
15.27	49	84.54	47 27	15.36	12	28.74	48 38	12.41	21	4.49	50 08	11.82	50	84.82	6 04	13.90	50	23.84	6 17
10.81	52	85.31	41 48	12.13	16	29.63	46 23	14.19	23	5.04	59 22	12.30	23 9	89.04	7 47	11.36	26 19	29.98	4 15
13.96	54	85.78	41 16	13.79	19	30.27	45 49	15.90	24	5.28	51 31	14.37	11	89.39	7 41	15.09	20	30.22	8 22
11.80	57	86.39	44 15	14.19	20	30.36	41 49	15.09	31	6.70	57 59	15.90	12	89.67	9 22	11.96	21 47	71.23	18 39
12.13	59	86.84	47 25	11.30	21 50	71.73	58 51	14.85	37	8.11	50 05	14.25	19	91.05	0 03	13.96	47	71.27	10 43
15.90	23 5	88.02	46 14	14.50	59	73.68	56 17	15.90	38	8.31	56 47	15.36	21	91.65	7 30	12.41	50	71.84	16 18
15.90	8	88.75	47 47	14.07	22 1	74.29	54 02	14.07	40	8.62	53 52	13.90	22	91.70	9 08	11.80	51	72.13	11 00
15.09	14	90.09	42 36	15.71	14	77.07	53 03	15.27	44	9.53	58 10	13.96	27	92.83	4 25	15.90	59	73.86	12 16
13.54	20	91.21	47 28	14.37	18	77.85	56 46	15.90	45	9.69	56 04	15.90	32	93.88	5 52	15.71	22 4	74.99	10 50
13.30	22	91.85	40 44	15.90	19	78.16	56 39	15.90	47	10.18	56 14	13.90	34	94.33	1 24	13.79	7	75.53	16 52
14.19	33	94.17	47 46	15.27	23	78.94	58 29	14.56	48	10.29	56 31	14.07	38	95.16	5 10	14.69	8	75.79	14 08
14.50	33	94.19	44 36	14.07	23	79.01	56 52	15.90	49	10.69	55 43	15.90	38	95.34	4 41	12.75	9	75.94	17 39
14.19	46	96.91	48 10	14.50	25	79.40	57 02	15.90	52	11.22	55 12	15.90	39	95.46	9 58	15.27	11	76.43	11 27
13.21	46	97.02	43 50	14.07	25	79.42	52 36	15.90	58	12.51	57 54	13.44	41	95.92	7 58	15.90	12	76.63	10 45
14.85	48	97.41	44 06	14.93	35	81.68	55 04	13.79	25 0	12.92	59 10	15.71	41	95.95	3 26	15.36	12	76.79	13 24
11.80	48	97.50	49 58	12.48	39	82.38	53 53	15.36	11	15.36	58 33	11.54	42	96.01	7 02	13.64	18	78.03	11 34
13.64	52	98.23	44 56	13.96	43	83.27	57 47	13.44	15	16.23	59 21	14.50	43	96.23	5 47	15.90	24	79.27	16 40
15.71	56	99.07	49 02	14.07	44	83.46	52 34	13.64	17	16.61	56 03	14.56	45	96.82	6 02	15.90	25	79.52	13 34
13.90	24 5	1.17	48 15	10.31	48	84.35	56 11	14.37	17	16.64	59 12	14.93	54	98.64	7 22	15.27	33	81.22	13 55
15.09	19	4.18	46 39	13.90	48	84.48	52 20	15.56	24	18.15	53 28	14.25	55	98.87	6 49	15.90	35	81.59	14 25
14.25	20	4.23	45 54	13.64	53	85.55	58 20	11.80	27	18.89	58 34	13.17	24 6	1.24	3 51	14.93	37	82.14	13 29
15.71	22	4.76	40 59	13.69	53	85.56	54 47	13.54	33	20.06	57 02	11.24	9	2.00	2 45	15.71	41	82.95	14 58
15.56	27	5.93	41 53	14.50	54	85.69	54 42	12.30	41	21.91	52 47	10.57	9	2.01	2 53	12.30	41	82.96	11 06
12.79	28	6.00	43 09	14.69	55	85.89	55 17	13.21	45	22.80	54 33	15.56	14	3.10	4 35	15.27	44	83.60	13 24
12.79	32	6.86	43 23	10.04	23 6	88.22	54 03	15.71	57	25.45	54 34	15.90	20	4.40	8 15	14.93	47	84.26	16 06
14.56	37	8.07	48 07	15.36	9	88.93	51 46	15.90	59	25.74	58 34	11.51	21	4.45	1 34	13.30	49	84.68	14 23
13.96	38	8.25	47 01	13.96	14	89.93	52 38	15.90	26 0	25.96	58 26	13.90	25	5.35	6 24	11.02	50	84.98	12 48
15.71	42	9.22	43 42	13.79	14	90.08	57 16	13.40	6	27.34	57 00	10.85	26	5.61	5 32	14.85	53	85.54	19 24
15.90	46	9.88	42 02	15.90	15	90.25	56 34	13.00	13	28.72	52 08	14.56	26	5.70	7 26	15.36	54	85.70	12 46
13.17	46	10.05	47 52	14.37	22	91.84	53 56	14.25	16	29.51	53 36	14.37	28	6.06	4 23	13.08	23 2	87.48	17 15
14.56	50	10.82	47 18	15.71	25	92.32	51 39	13.17	21 51	72.06	2 57	14.93	28	6.12	9 38	15.90	3	87.74	10 46
14.85	52	11.23	48 14	14.85	26	92.66	51 41	14.93	52	72.32	0 42	15.90	33	7.21	9 52	15.90	12	89.58	17 04
11.16	56	12.10	41 48	14.85	33	94.12	51 24	15.90	56	73.09	1 33	14.25	36	7.88	9 12	15.56	13	89.83	17 24
14.85	25 2	13.52	40 27	15.90	34	94.44	57 11	14.93	57	73.46	1 30	15.90	39	8.41	1 28	15.71	20	91.36	13 42
14.85	2	13.55	49 50	14.93	34	94.46	52 06	14.37	22 0	74.14	9 09	13.96	39	8.51	0 51	12.13	23	92.09	16 22
15.27	9	14.94	42 11	13.90	42	96.01	53 12	10.14	1	74.22	8 04	14.69	43	9.28	4 24	15.56	33	94.14	17 13
13.74	13	15.84	49 38	14.85	44	96.56	54 50	14.85	4	74.80	5 59	15.09	48	10.45	5 59	14.37	37	95.12	15 25
13.00	14	16.12	45 51	13.79	49	97.57	58 54	14.69	5	75.16	1 11	14.07	53	11.49	2 00	15.09	39	95.45	14 11

25 prec. + 79 sec. + 8′ 18″.

251—290				291—330				331—370				371—410				411—442			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.90	23 39	95.47	13 28	14.93	21 51	72.29	20 18	14.56	24 2	0.33	25 43	15.90	25 58	25.36	24 30	15.90	24 14	2.92	38 19
15.90	42	96.11	18 33	14.93	54	72.73	27 21	15.90	2	0.52	24 01	13.64	26 6	27.14	29 09	12.48	22	4.64	36 52
15.27	50	97.79	16 53	14.07	55	72.97	24 27	15.90	4	0.80	21 46	13.64	10	27.93	21 57	13.96	22	4.79	35 28
14.07	51	98.15	16 42	15.90	55	73.02	22 45	15.90	4	0.86	25 12	12.30	12	28.39	27 21	12.30	24	5.06	35 28
12.79	52	98.27	18 15	13.96	58	73.80	20 39	15.27	5	1.07	25 52	8.54	21 52	72.46	37 30	12.48	24	5 15	31 14
15.36	54	98.65	19 43	14.93	22 2	74.65	22 45	15.27	12	2.70	23 45	14.19	22 5	75.18	36 01	15.90	42	9.02	31 22
14.85	54	98.77	10 37	9.08*	8	75.76	20 26	12.79	14	2.95	26 46	15.90	7	75.65	35 10	15.90	49	10.62	35 35
14.07	57	99.30	12 06	14.93	11	76.58	23 52	13.96	23	4.92	20 22	13.96	11	76.64	37 58	12.41	50	10.84	30 48
14.37	24 3	0.62	19 12	15.90	14	77.25	27 15	14.93	24	5.20	27 26	14.37	12	76.86	32 42	15.90	25 10	14.97	30 29
8.78*	6	1.27	10 53	15.71	22	78.84	27 52	14.56	30	6.50	25 26	13.54	15	77.31	33 21	14.93	18	16.84	38 00
15.90	10	2.11	15 43	14.93	28	80.21	21 23	15.90	35	7.45	24 55	13.79	16	77.64	30 57	15.90	19	16.91	36 59
14.85	13	2.90	16 59	15.56	32	81.04	29 45	15.71	35	7.59	21 04	10.39	19	78.25	39 44	15.27	21	17.54	35 54
14.50	24	5.13	11 13	14.69	33	81.19	21 43	14.37	43	9.28	20 08	14.07	21	78.61	31 54	14.07	27	18.72	32 19
14.93	35	7.52	12 46	14.07	33	81.23	26 50	14.25	44	9.43	22 16	13.54	24	79.44	32 50	14.13	28	19.02	30 01
11.42	39	8.37	15 02	14.56	33	81.31	26 11	13.44	46	9.94	24 02	14.50	30	80.70	32 05	13.54	29	19.18	37 09
11.98	41	8.81	14 07	15.56	34	81.49	20 29	15.90	46	10.01	23 36	13.96	36	81.89	36 45	14.85	35	20.35	39 31
14.69	47	10.06	15 58	15.01	35	81.77	29 30	15.36	53	11.41	20 39	13.40	37	82.13	31 33	15.90	37	20.96	36 01
13.40	49	10.58	19 43	15.90	36	81.97	26 38	13.54	55	11.83	25 25	14.56	38	82.36	33 52	14.93	38	21.17	39 10
15.71	51	10.98	11 28	15.56	40	82.66	25 14	14.85	55	11.89	24 30	14.85	45	83.78	39 16	15.90	39	21.23	34 10
14.07	59	12.70	12 37	13.64	47	84.36	22 10	15.71	56	12.18	27 44	15.56	46	84.17	31 56	15.90	40	21.50	36 23
15.71	25 6	14.34	12 31	15.90	48	84.41	21 46	13.69	58	12.47	25 25	15.90	47	84.22	32 46	14.56	45	22.65	31 36
14.25	18	16.79	12 49	12.67	56	86.10	25 14	13.69	59	12.77	20 53	10.98	52	85.42	32 10	14.07	49	23.52	31 08
14.50	22	17.65	13 06	15.90	23 3	87.62	20 22	15.36	25 1	13.10	23 07	14.37	23 5	88.07	37 10	15.36	51	23.80	30 25
14.93	27	18.81	12 10	15.90	3	87.64	22 43	13.69	9	14.96	24 21	15.90	8	88.71	34 00	15.90	54	24.51	39 51
15.90	32	19.92	17 02	13.96	8	88.69	22 23	15.90	10	15.01	23 48	14.07	21	91.64	36 10	13.40	56	24.86	31 10
14.37	32	19.94	16 44	15.90	21	91.61	24 36	15.90	16	16.31	22 52	14.69	28	93.07	36 19	13.08	58	25.46	31 10
15.56	39	21.41	10 06	15.71	21	91.65	26 46	15.90	17	16.65	21 04	15.90	32	93.87	35 52	13.96	26 0	25.89	33 55
15.71	53	24.33	12 12	13.90	22	91.84	23 04	12.13	19	17.01	25 02	13.64	49	97.65	37 56	15.90	4	26.75	36 08
14.13	53	24.48	10 15	13.54	27	92.85	28 30	15.90	23	17.91	28 12	15.90	52	98.18	39 24	14.85	7	27.31	33 38
15.36	26 0	25.93	17 10	15.27	30	93.46	24 37	15.18	24	18.15	20 12	14.85	53	98.56	30 23	14.56	14	28.76	34 31
15.90	5	27.06	13 56	13.90	32	93.95	27 17	15.18	29	19.20	20 07	14.56	24 1	0.17	37 35	15.90	19	29.90	36 43
15.36	8	27.61	13 23	15.27	32	93.96	22 56	13.96	30	19.41	21 36	14.85	3	0.64	32 17	15.90	24	30.94	31 31
11.80	10	28.12	18 18	13.44	33	94.13	23 02	15.90	43	22.30	23 37	12.37	4	0.76	36 08				
15.56	13	28.68	18 51	13.69	34	94.44	22 23	15.36	48	23.30	25 20	11.71	4	0.85	37 38				
15.18	14	28.90	19 43	12.67	46	96.88	27 21	13.17	49	23.49	21 35	14.07?	6	1.30	32 02				
15.90	18	29.71	10 07	13.40	49	97.53	25 20	15.90	50	23.76	24 22	11.67	6	1.37	35 27				
14.85	19	29.94	16 53	15.90	50	97.85	22 02	14.19	53	24.29	29 31	15.90	9	1.90	36 22				
12.48	21 47	71.36	22 55	13.79	52	98.38	24 55	13.79	53	24.41	21 11	15.90	10	2.08	30 56				
15.56	49	71.68	21 02	12.48	59	99.87	24 15	14.19	54	24.49	21 45	15.90	10	2.17	39 03				
15.71	49	71.82	21 04	15.90	24 1	0.17	25 19	14.93	54	24.64	24 36	13.90	11	2.46	34 08				

25 prec. + 79 sec. + 8′ 18″.

Area 45. Centre for 1900: $1^h\ 26^m + 30^\circ\ 10'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$ / $y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.42	23 54	72.69	46 37	11.76	26 36	7.79	44 43	14.62	25 28	93.07	57 41	15.66	27 35	20.52	52 35	12.95	25 49	97.67	3 29
15.14	59	73.69	44 59	14.73	47	10.24	49 22	13.09	28	93.11	52 52	14.02	39	21.36	57 18	15.20	49	97.68	9 40
15.14	24 6	75.36	48 57	13.52	49	10.62	45 19	13.42	29	93.27	55 52	15.20	41	21.90	57 33	15.66	51	98.04	6 48
11.15	9	75.86	45 46	14.85?	51	11.09	45 33	14.45	39	95.35	55 46	15.66	43	22.40	52 39	13.66	54	98.75	4 10
14.29	11	76.29	45 45	14.62	54	11.80	41 04	14.62	40	95.74	56 14	15.66	44	22.56	55 40	15.66	58	99.56	6 13
13.28	11	76.44	44 24	15.66	56	12.18	45 37	15.66	47	97.23	51 36	15.66	53	24.43	50 51	13.66	26 4	0.91	9 11
15.32	12	76.45	45 29	15.02	27 0	13.04	43 28	14.18	49	97.57	53 02	14.56	53	24.50	55 37	8.86*	9	2.01	6 39
14.18	14	77.10	47 12	14.45	1	13.34	46 39	15.66	26 0	99.93	50 57	14.34	55	24.84	52 12	15.66	11	2.43	8 28
14.91	15	77.29	43 44	12.52	2	13.50	41 26	15.47	1	0.14	57 21	14.08	57	25.43	56 55	14.85	21	4.57	4 03
9.52	21	78.48	44 49	14.85	15	16.17	42 34	11.59	2	0.51	52 33	8.07	28 0	26.02	52 40	13.66	22	4.78	2 21
15.66	21	78.55	43 21	10.80	20	17.39	44 54	14.56	6	1.37	52 33	15.66	3	26.58	58 02	15.20	24	5.19	6 54
15.66	22	78.76	46 59	14.91	24	18.15	46 05	14.62	9	1.99	57 22	15.66	3	26.66	51 13	10.87	25	5.46	0 08
14.73	23	78.90	43 02	14.62	24	18.22	47 19	11.76	11	2.32	51 08	14.62	4	26.98	58 33	13.76	28	6.07	1 10
15.66	24	79.12	48 33	14.02	31	19.75	40 43	15.47	13	2.91	56 00	15.32	11	28.49	51 08	15.47	29	6.28	2 27
14.73	27	79.87	40 55	15.02	31	19.77	48 37	13.97	16	3.42	50 26	14.73	24	31.18	58 16	14.56	30	6.48	3 25
13.32	29	80.16	48 57	10.59	32	19.88	40 12	11.76	18	3.98	58 59	11.76	24	31.21	50 32	14.18	33	7.11	7 11
10.06	30	80.49	42 42	14.56	37	20.98	42 01	15.66	23	4.93	50 09	14.56	27	31.77	54 07	13.76	39	8.51	4 39
15.66	31	80.60	44 44	14.08	44	22.61	48 17	10.95	24	5.09	51 04	13.92	23 52	72.24	3 15	12.44	45	9.67	7 52
15.66	35	81.50	49 19	14.18	46	22.89	44 56	14.45	24	5.13	56 24	14.45	56	73.07	1 23	14.45	47	10.23	7 13
15.66	40	82.65	42 52	14.02	54	24.81	48 09	13.76	28	6.00	50 40	15.66	24 2	74.58	4 21	12.31	51	11.09	3 43
13.92	43	83.25	44 31	15.20	58	25.70	46 38	13.66	32	6.85	52 45	14.73	4	74.95	9 40	14.08	55	11.92	2 39
14.85	57	86.39	49 42	13.76	28 3	26.75	48 29	13.82	34	7.29	56 06	12.31	6	75.24	7 34	14.02	56	12.15	5 33
14.73	59	86.85	41 18	14.73	6	27.29	45 51	15.47	39	8.40	53 50	13.92	12	76.69	3 17	13.18	57	12.36	7 26
15.66	25 2	87.31	47 28	14.29	6	27.39	43 31	13.66	40	8.57	52 07	14.62	19	78.24	7 55	14.29	57	12.36	9 44
15.66	11	89.29	49 02	12.52	14	29.19	44 37	15.66	41	8.79	50 45	11.29	24	79.28	6 35	15.47	27 13	15.74	6 57
15.47	11	89.39	41 13	13.66	20	30.44	47 45	14.29	41	8.88	58 48	12.95	27	79.92	8 36	15.66	19	17.01	3 41
13.42	12	89.56	46 41	14.85	22	30.89	40 48	14.18	44	9.53	52 14	14.91	28	80.02	7 54	14.08	26	18.62	3 41
15.02	14	89.94	45 40	14.62	23 52	72.32	53 23	15.20	45	9.79	50 36	15.66	29	80.26	4 33	15.02×	35	20.46	8 06
15.66	15	90.32	44 03	13.76	53	72.40	56 37	15.47	48	10.36	58 30	14.73	29	80.39	9 13	14.34	35	20.61	7 53
14.73	25	92.36	45 34	10.45[1]	24 4	74.87	53 40	14.73	51	10.97	52 08	15.66	36	81.84	7 47	14.67	38	21.25	9 48
14.73	27	92.72	46 19	13.56	8	75.73	58 30	14.47	52	11.30	57 16	13.76	41	82.82	8 25	14.56	42	22.09	3 02
14.91	38	95.23	42 34	11.59	11	76.34	56 52	15.02	54	11.73	52 05	12.12	43	83.39	8 45	15.66	51	24.10	2 29
14.18	39	95.53	47 29	14.73	15	77.31	51 10	15.66	57	12.32	56 38	12.12	56	86.13	1 29	15.66	55	24.82	8 30
13.66	42	96.16	45 45	14.91	16	77.50	53 40	13.52	57	12.46	58 27	15.66	25 0	87.05	9 58	15.66	57	25.39	8 20
14.45	44	96.62	41 11	15.47	24	79.11	51 28	14.45	27 2	13.36	59 19	14.85	3	87.59	3 56	14.91	28 0	25.85	6 09
10.72	45	96.72	40 13	14.73	24	79.15	54 56	13.56	2	13.44	59 14	15.02	3	87.68	1 02	13.52	0	26.07	6 00
13.92	47	97.13	41 22	14.29	26	79.73	53 41	15.47	4	13.98	53 17	12.73	8	88.75	2 55	13.09	7	27.39	4 24
14.91	48	97.38	48 52	13.66	29	80.32	58 33	14.08	5	14.10	56 08	10.64	10	89.12	1 54	15.66	7	27.55	5 14
15.66	49	97.64	42 42	14.85	35	81.57	50 48	14.85	6	14.19	54 06	14.45	16	90.56	0 47	14.18	7	27.57	5 43
15.02	53	98.56	46 52	14.18	39	82.54	54 41	14.45	10	15.13	51 08	13.18	18	90.93	5 45	15.32	9	27.81	6 10
14.34	26 0	0.05	45 32	15.47	45	83.78	50 41	14.91	16	16.37	53 14	15.32	21	91.66	9 59	12.95	12	28.59	5 55
15.32	3	0.64	41 43	15.47	45	83.82	59 12	14.91	17	16.71	56 03	10.90	23	91.95	8 50	15.32	13	28.71	7 50
15.47	5	1.11	43 19	12.04	51	85.08	53 20	14.73	20	17.22	55 11	12.48	23	91.95	0 16	13.92	13	28.84	8 53
13.42	7	1.50	42 25	14.73	51	85.10	52 41	13.92	21	17.44	52 10	14.91	25	92.40	7 47	12.77	16	29.35	9 34
13.04	8	1.69	41 21	12.73	25 8	88.71	51 13	14.85	21	17.62	53 16	15.47	30	93.49	2 01	13.92	16	29.43	6 21
15.66	12	2.63	48 46	15.20	11	89.29	54 01	13.97	22	17.84	50 25	15.66	31	93.75	9 18	14.18	16	29.50	3 39
14.91	16	3.49	47 59	14.56	12	89.57	54 55	14.08	27	18.84	50 22	15.66	32	93.87	2 15	15.20	17	29.57	8 38
14.34	18	3.84	49 16	15.47	19	91.17	54 34	15.14	30	19.48	55 25	14.45	33	94.19	7 39	13.32	20	30.31	6 48
10.91	24	5.14	42 29	15.47	21	91.58	59 43	14.85	31	19.69	58 50	15.47	39	95.45	7 56	15.32	21	30.42	2 24
14.18	26	5.64	46 50	15.66	26	92.55	53 12	13.18	34	20.43	59 07	14.02	47	97.21	7 08	14.85	22	30.69	3 21

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[1] Star-image elongated.

25 prec. + 84 sec. + 7′ 46″.

1^h

Area 45.

$+30^{\circ}$

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.66	28 23	30.85	3 12	15.47	26 11	2.32	18 23	14.18	24 16	77.48	28 45	15.66	27 10	15.00	23 46	15.66	24 42	83.22	38 54
14.85	24	31.25	4 42	14.02	12	2.51	11 40	14.85	20	78.52	28 15	14.29	11	15.23	24 28	15.66	53	85.66	37 54
14.85	25	31.39	4 39	13.87	13	2.88	19 59	15.66	24	79.25	25 51	14.85	15	16.13	22 41	14.08	25 1	87.29	35 54
14.85	23 51	72.06	11 33	14.18	16	3.41	10 36	15.20	33	81.21	27 11	14.91	18	16.82	25 06	15.47	3	87.68	39 54
15.66	52	72.37	13 16	14.29	18	3.80	16 56	14.85	38	82.40	29 28	14.73	18	16.90	27 53	14.91	11	89.53	30 31
15.47	53	72.58	12 56	15.14	22	4.67	10 16	14.85	44	83.53	28 22	14.56	21	17.48	22 03	15.47	13	89.78	32 32
15.14	58	73.70	19 19	15.47	26	5.58	18 53	12.52	48	84.48	21 59	15.47	25	18.36	29 54	14.34	16	90.48	35 52
15.02	24 0	74.09	15 20	14.56	31	6.74	14 01	15.47	50	84.81	23 59	12.86	37	20.84	28 32	14.62	20	91.31	39 36
13.42	5	75.26	12 02	11.59	33	7.05	14 12	14.62	50	84.93	22 27	13.66	37	20.87	25 23	14.85	20	91.39	39 19
13.56	6	75.28	18 57	13.09	34	7.39	14 06	14.18	52	85.36	23 27	13.52	37	20.98	25 14	11.76	22	91.76	31 59
14.79	14	77.22	19 53	12.65	40	8.71	14 07	14.85	53	85.61	22 01	14.56	38	21.19	24 24	11.59	22	91.92	34 16
9.96	16	77.51	17 18	13.56	46	9.93	16 58	15.66	55	86.02	28 44	9.51	45	22.74	26 10	14.85	23	92.00	34 32
14.45	16	77.64	19 07	13.82	48	10.35	19 03	14.29	25 12	89.65	27 27	13.82	48	23.29	26 20	13.28	24	92.22	39 00
14.85	24	79.33	10 20	15.66	53	11.50	11 33	13.92	13	89.88	25 26	15.66	52	24.15	26 51	15.02	27	92.99	36 48
15.66	34	81.35	12 47	13.18	56	12.11	18 32	15.66	14	90.14	25 07	15.47	53	24.26	24 34	14.85	33	94.10	36 05
14.45	35	81.74	13 59	15.02	57	12.31	14 58	13.66	18	90.91	26 17	14.62	58	25.39	27 09	12.82	33	94.29	37 08
12.82	36	81.77	17 37	15.02	58	12.45	19 27	15.32	19	91.15	28 39	15.66	59	25.63	26 34	13.92	35	94.59	32 14
15.66	41	82.89	10 31	15.47	27 3	13.63	15 29	14.73	21	91.60	28 00	14.45	59	25.66	20 22	15.66	41	95.89	31 12
13.56	44	83.56	11 07	12.31	8	14.74	16 38	11.01	21	91.68	23 45	14.91	28 1	26.06	29 21	13.56	42	96.11	34 36
15.02	46	83.95	16 55	14.85	13	15.83	14 20	14.08	27	92.82	20 38	13.92	3	26.46	22 27	14.91	42	96.17	37 59
15.47	47	84.25	11 42	12.52	22	17.66	13 11	13.92	27	92.97	27 53	15.66	3	26.48	20 18	14.73	44	96.67	34 30
14.02	56	86.21	11 27	14.34	23	18.01	11 44	15.66	28	93.02	21 09	14.56	6	27.09	22 27	14.73	47	97.18	39 05
14.73	57	86.35	10 39	11.59	30	19.42	16 16	14.08	29	93.27	25 04	14.85	7	27.35	25 29	14.91	49	97.69	35 57
15.66	25 0	86.97	12 38	12.65	31	19.55	15 25	14.34	30	93.55	20 21	10.89	9	27.76	23 49	15.32	50	97.88	32 02
14.18	5	88.03	19 24	14.91	34	20.19	11 00	15.66	34	94.41	22 27	14.85	9	27.79	24 11	15.02	54	98.70	32 33
15.47	6	88.36	13 35	15.47	34	20.24	18 09	14.73	36	94.79	28 16	15.66	14	28.99	29 24	13.56	54	98.72	39 26
14.73	8	88.87	13 39	15.20	34	20.27	14 27	15.66	36	94.89	28 46	14.18	27	31.64	26 31	15.47	58	99.56	34 57
12.23	10	89.18	10 20	14.34	39	21.41	13 22	15.32	39	95.45	21 02	15.66	23 51	72.21	30 50	14.85	26 1	0.18	31 07
15.66	16	90.55	11 20	13.76	40	21.70	17 15	15.66	47	97.11	22 07	14.91	57	73.42	31 16	13.32	2	0.35	31 14
13.37	18	91.02	19 53	13.37	53	24.40	19 59	15.20	51	98.04	22 54	15.02	24 0	74.12	38 09	14.34	7	1.60	30 26
14.91	22	91.68	13 14	14.62	57	25.31	15 08	15.32	56	99.05	23 09	15.47	3	74.84	32 12	12.73	8	1.69	37 40
15.32	28	93.01	15 03	15.66	28 0	25.98	14 13	15.47	26 1	0.16	28 43	13.82	4	75.12	39 49	15.66	21	4.46	36 23
15.66	29	93.24	12 08	14.18	1	26.04	12 18	15.02	1	0.28	21 39	14.18	6	75.56	33 09	15.47	21	4.58	38 54
12.86	30	93.48	15 51	11.93	5	27.08	15 49	13.87	1	0.32	20 08	13.09	7	75.69	38 36	15.66	24	5.08	31 17
12.60	31	93.70	18 13	15.47	7	27.42	10 29	15.66	5	1.12	24 42	14.02	8	75.97	33 52	14.62	26	5.57	37 36
15.66	32	94.06	17 55	13.56	9	27.91	15 35	13.92	8	1.79	28 57	10.47	10	76.35	32 27	15.20	27	5.86	34 22
15.66	34	94.48	17 17	14.40	15	29.18	19 34	14.08	9	1.92	25 24	15.66	18	77.97	32 58	15.02	33	7.11	36 56
13.76	40	95.64	16 12	12.31	16	29.39	17 58	14.34	10	2.11	27 16	13.66	18	78.15	33 05	15.66	49	10.49	35 47
15.32	50	97.91	11 10	14.73	18	29.85	14 47	15.47	10	2.26	24 06	11.93	20	78.41	35 55	15.02	49	10.54	35 02
15.38	51	97.96	19 36	15.66	19	30.06	12 06	14.45	13	2.87	22 18	15.47	23	79.07	38 32	15.66	50	10.76	38 08
15.66	56	99.14	12 09	15.14	25	31.41	13 28	13.82	14	3.09	26 04	14.91	24	79.26	31 18	15.32	51	10.94	36 05
13.82	56	99.20	14 55	8.38	23 51	72.18	22 52	15.20	18	3.91	24 44	11.01	24	79.37	35 34	12.60	52	11.18	36 27
15.66	57	99.38	14 26	14.91	54	72.78	21 56	13.28	23	5.06	22 52	14.73?	25	79.57	38 26	15.20	52	11.28	38 48
14.91	26 2	0.37	12 32	14.34	54	72.83	21 22	11.13	28	6.05	24 17	14.29	25	79.66	37 44	14.18	54	11.67	32 21
13.42	4	0.78	12 50	14.56	58	73.60	27 04	15.02	28	6.12	24 56	14.73	27	79.94	38 15	12.12	55	11.75	37 56
10.74	4	0.94	11 40	15.66	24 1	74.43	22 32	12.73	39	8.49	23 32	14.73?	27	79.96	37 57	14.91	59	12.74	39 18
15.02	7	1.43	14 52	15.66	3	74.68	21 21	14.56	44	9.47	20 41	14.85?	27	80.05	37 55	14.85	27 6	14.23	30 12
15.66	10	2.07	16 16	13.82	4	74.97	25 11	15.47	50	10.85	21 47	15.66	36	81.96	37 30	15.20	13	15.73	31 12
15.14	11	2.28	18 04	8.32*	13	76.96	29 27	14.34	27 3	13.55	29 18	14.73	40	82.84	32 23	12.82	14	16.03	35 23
14.29	11	2.31	18 10	13.82	14	77.26	26 49	14.56	4	13.86	23 57	15.14	41	83.04	30 36	15.32	23	17.83	37 39

25 prec. + 84 sec. + 7′ 46″.

1^h Area 45. + 30°

501—510				511—520				521—525			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.91	27 26	18.55	32 42	12.44	27 51	23.91	38 41	14.73	28 18	29.67	30 45
15.47	26	18.59	39 40	15.20	55	24.80	38 38	15.66	21	30.29	31 30
14.85	27	18.68	31 42	13.82	56	24.94	39 53	12.52	24	30.94	37 08
15.66	30	19.33	31 03	14.08	28 1	26.03	34 20	13.32	25	31.15	39 56
14.85	32	19.84	34 20	15.66	8	27.63	35 34	14.34	28	31.92	33 11
15.66	33	20.09	32 36	13.32	8	27.65	32 43				
15.66	36	20.59	31 57	15.66	11	28.26	37 18				
12.44	37	20.81	39 14	11.59	11	28.30	36 04				
11.59	41	21.67	36 22	14.34	13	28.60	36 21				
15.66	42	21.94	33 01	13.32	15	29.08	31 35				

25 prec. + 84 sec. + 7′ 45″.

2^h Area 46. Centre for 1900: $2^h 29^m + 30° 10'$. + 29°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.47	27 10	76.17	40 53	13.30	28 44	96.62	49 14	15.48	30 17	16.75	49 30	15.96	31 39	34.51	44 03	11.40	28 59	99.72	54 21
15.52	18	77.80	47 01	13.86	45	96.82	40 56	15.96	19	17.15	40 29	13.12	40	34.79	46 06	14.81	29 2	0.42	54 31
15.96	18	77.80	49 38	14.90	48	97.35	40 11	15.96	28	19.09	42 27	11.02	27 19	78.21	55 13	13.94	2	0.51	58 05
11.34	20	78.20	44 48	15.77	50	97.91	41 45	15.96	28	19.12	41 18	14.26	24	79.12	55 22	15.96	3	0.55	56 13
11.34	23	78.98	48 36	13.98	52	98.28	46 31	15.77	30	19.44	48 59	14.99	24	79.12	56 30	15.77	3	0.71	52 16
15.96	24	79.19	44 12	15.96	54	98.74	47 44	15.96	30	19.58	47 00	13.78	26	79.56	54 07	15.96	4	0.79	54 27
15.96	25	79.46	46 31	14.69	29 1	0.22	44 47	14.14	37	21.05	41 53	13.67	28	80.09	57 06	14.77	4	0.82	51 11
14.56	27	79.78	45 59	12.61	4	0.79	46 47	14.56	42	22.12	43 33	15.24	29	80.29	52 31	15.77	13	2.85	52 03
14.90	28	80.11	48 26	14.60	4	0.87	49 12	14.26	43	22.28	40 39	11.52	33	81.09	56 35	15.96	15	3.27	52 05
15.96	29	80.23	45 09	13.56	8	1.84	41 00	14.02	44	22.56	49 38	15.24	34	81.45	50 59	13.48	16	3.39	51 51
13.67	32	80.94	42 28	15.48	10	2.26	42 03	14.39	44	22.67	40 57	15.96	36	81.82	57 48	14.77	24	5.16	50 58
14.18	34	81.32	42 09	14.56	15	3.19	46 56	12.61	45	22.73	40 40	14.60	38	82.13	58 34	11.97	28	6.10	55 08
14.69	35	81.45	40 42	14.18	16	3.46	44 45	15.96	48	23.53	42 25	11.12	44	83.47	57 52	14.99	29	6.33	51 31
14.56	36	81.82	46 26	13.86	23	4.97	46 20	15.28	51	24.07	43 26	13.94	46	84.00	57 29	14.06	31	6.69	59 36
15.96	37	82.09	49 50	14.47	25	5.51	46 33	15.77	52	24.23	48 01	14.39	49	84.65	53 52	14.02	31	6.72	59 54
15.62	39	82.43	41 53	14.35	26	5.59	45 34	15.48	52	24.38	41 07	12.95	53	85.56	57 12	15.04	45	9.67	54 47
15.38	58	86.55	49 52	11.34	31	6.73	40 41	14.18	57	25.44	46 50	15.24	28 1	87.19	52 40	12.45	51	11.03	54 33
14.56	28 1	87.29	49 22	15.77	32	6.89	48 25	9.54	58	25.72	44 16	15.52	7	88.45	59 19	14.35	53	11.45	58 45
11.40	3	87.63	46 13	15.57	35	7.52	49 45	15.24	31 4	26.81	45 50	11.24	8	88.67	53 42	14.47	53	11.52	51 29
14.26	5	87.97	41 37	15.96	37	7.96	42 38	15.77	6	27.44	40 46	15.24?	14	90.05	52 05	15.96	55	11.89	55 12
14.69	7	88.45	42 02	15.28	38	8.29	46 12	12.95	7	27.46	47 09	15.77	15	90.23	56 11	14.26	30 4	13.98	57 19
14.90	10	89.24	42 32	15.77	39	8.49	49 46	14.77	10	28.25	48 42	11.48	19	91.20	56 15	15.96	10	15.08	56 26
15.77	13	89.89	48 11	15.14	44	9.48	41 12	15.48	10	28.26	42 18	13.30	21	91.46	55 51	15.04	12	15.66	50 31
11.67	19	91.04	44 06	12.13	51	11.17	43 46	15.96	11	28.41	46 08	14.35	26	92.57	58 30	14.14	12	15.68	53 21
15.96	20	91.23	41 03	12.61	30 3	13.67	49 31	13.59	19	30.11	42 15	15.24	26	92.58	53 10	15.28	16	16.36	53 20
15.48	28	93.08	48 04	12.29	4	13.86	40 42	14.77	23	31.13	41 12	14.18	36	94.69	57 30	15.96	19	17.07	54 16
14.35	30	93.43	42 51	15.28	9	14.95	45 51	15.96	28	32.14	43 45	14.22	39	95.44	50 43	15.96	19	17.16	54 01
13.12	30	93.48	41 36	13.94	11	15.46	41 31	15.52	37	34.05	48 07	15.96	40	95.70	54 15	15.52	27	18.77	58 18
15.28	38	95.30	45 57	13.12	16	16.38	42 08	15.96	38	34.26	45 12	15.52	47	97.13	53 00	13.98	27	18.80	50 32
15.96	39	95.35	48 56	15.38	16	16.50	47 06	14.69	38	34.26	43 45	15.04	48	97.37	58 11	13.78	28	18.96	57 15

25 prec. + 88 sec. + 6′ 38″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	a	x	$\frac{y+70'}{y+10'}$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.96	30 29	19.26	54 33	14.43	28 21	91.57	0 36	15.77	31 24	31.14	1 16	15.28	29 12	2.69	14 03	13.86	27 30	80.68	27 14
14.60	30	19.58	55 39	15.14	22	91.73	6 50	14.81	24	31.20	5 34	13.86	13	2.71	17 31	15.24	35	81.58	20 10
14.18	32	20.04	59 58	15.96	31	93.80	7 54	15.96	29	32.32	7 53	15.96	14	2.98	14 48	11.82	40	82.81	23 21
12.45	38	21.26	51 03	14.60	38	95.16	3 15	15.77	33	33.08	9 58	14.35	17	3.65	15 28	15.52	43	83.36	25 47
14.56	39	21.55	58 37	14.60	42	96.19	2 27	15.96	34	33.28	1 26	13.78	19	4.14	13 01	15.77	44	83.64	21 14
11.97	40	21.68	58 04	15.62	43	96.39	2 54	15.96	41	34.77	3 49	15.62	24	5.26	15 28	14.77	46	83.98	25 07
14.26	41	21.95	51 11	12.95	58	99.46	6 34	14.52	27 10	76.26	10 04	9.19*	27	5.75	14 38	15.77	47	84.26	22 26
14.35	42	22.05	53 49	15.28	29 0	0.01	2 08	14.26	10	76.32	11 26	11.32	34	7.39	15 13	13.75	49	84.66	22 31
12.19	42	22.05	50 14	15.96	0	0.07	9 51	14.39	12	76.64	10 32	14.18	38	8.30	17 36	14.14	51	85.10	20 48
15.77	46	22.93	50 10	15.96	0	0.09	1 53	12.45	13	76.85	18 48	14.60	45	9.76	10 41	14.47	54	85.84	23 18
11.10	50	23.88	55 50	15.38	3	0.60	8 03	15.96	20	78.35	10 21	15.38	45	9.82	15 53	11.97	28 6	88.25	25 15
15.77	51	24.15	56 23	15.24	13	2.70	8 13	14.69	20	78.49	12 44	15.28	51	10.95	15 49	14.35	8	88.69	25 21
14.60	54	24.75	55 04	15.96	16	3.45	6 07	14.26	22	78.91	16 26	15.28	53	11.53	17 00	15.33	14	90.02	20 10
12.61	56	25.02	56 36	13.75	19	4.09	5 33	14.35	24	79.27	15 38	15.96	53	11.54	18 49	14.39	19	91.13	23 38
10.28	58	25.52	50 38	15.96	19	4.19	9 37	15.77	28	80.14	11 47	12.78	30 7	14.46	10 57	14.18	20	91.27	27 15
13.78	31 2	26.33	57 08	15.96	20	4.25	4 59	15.48?	30	80.46	14 20	15.24	9	14.98	13 01	14.60	25	92.54	21 50
13.23	2	26.43	56 46	15.96	24	5.11	2 14	15.96	34	81.39	12 58	15.96	11	15.25	11 47	14.69	33	94.23	23 17
14.56	2	26.43	55 48	15.14	29	6.19	3 30	14.60	34	81.49	17 34	12.29	14	15.92	10 57	14.69	37	94.99	24 20
13.94	3	26.63	59 20	15.48	33	7.10	6 15	15.96	35	81.63	11 42	15.52	14	16.03	14 00	15.28	48	97.43	22 16
12.61	3	26.74	52 07	15.96	35	7.56	8 03	14.81	39	82.41	12 54	15.52	19	17.01	18 18	10.45	51	98.15	22 45
14.81	6	27.37	58 00	15.24	36	7.71	8 07	14.56	49	84.66	10 49	15.62	21	17.58	11 27	12.45	55	99.02	27 49
15.62	12	28.53	53 13	14.39	40	8.56	1 57	14.35	51	85.19	15 49	14.69	29	19.19	18 41	14.56	59	99.73	21 32
7.42*	15	29.24	58 31	14.56	44	9.60	1 58	14.18	56	86.25	18 37	14.56	30	19.51	13 00	14.90	59	99.82	21 59
15.96	17	29.71	54 49	15.04	49	10.49	8 10	12.29	59	86.85	19 34	14.77	32	19.89	17 50	12.78	29 13	2.88	23 11
14.90	18	29.80	51 37	15.52	53	11.36	3 00	15.77	28 2	87.56	19 36	13.48	38	21.24	19 27	15.14	15	3.28	26 39
13.37	23	30.91	53 37	15.48	55	11.87	7 29	13.98	5	88.02	12 16	15.96	42	22.13	14 16	14.69	25	5.34	24 51
12.29	27	31.81	55 48	15.96	30 2	13.48	3 33	11.38	6	88.37	15 06	15.96	44	22.51	12 37	13.94	26	5.70	25 35
12.78	37	34.10	54 45	15.96	6	14.20	2 10	14.81	8	88.74	12 41	14.10	31 0	25.84	19 28	14.35	29	6.20	25 24
15.96	38	34.34	57 21	12.95	9	14.84	3 55	15.14	8	88.77	16 09	13.48	0	25.96	13 15	13.12	31	6.63	23 35
15.04	41	34.90	54 30	14.81	13	15.69	4 25	15.77	9	89.02	10 03	11.40	9	27.84	12 57	14.47	31	6.78	22 19
14.18	42	35.10	57 22	14.18	13	15.76	8 42	15.14	10	89.21	19 19	11.19	9	27.94	17 35	14.77	32	6.82	20 00
15.28	43	35.34	56 19	14.77	15	16.14	4 59	15.96	10	89.21	16 40	15.28	10	28.04	10 13	14.69	32	6.97	21 32
14.14	44	35.51	52 54	14.69	30	19.47	1 47	15.24?	12	89.60	19 20	15.77	11	28.31	14 20	15.48	35	7.51	29 24
15.96	45	35.77	56 13	14.14	30	19.50	5 00	15.48?	13	89.77	19 18	15.96	12	28.57	18 19	15.33	38	8.13	29 56
14.81	27 11	76.49	5 18	15.24	32	19.95	7 44	14.77	15	90.25	16 39	15.04	15	29.09	16 30	13.86	38	8.13	20 24
15.96	15	77.26	8 31	14.18	33	20.10	0 12	13.94	22	91.79	16 46	10.39	15	29.13	12 23	13.48	38	8.14	20 34
14.99	18	77.86	7 13	15.96	44	22.48	6 21	15.96	24	92.13	18 19	15.14	17	29.62	10 35	15.28	39	8.36	28 12
15.52	28	80.07	1 24	14.35	49	23.60	2 31	13.12	26	92.59	12 34	11.97	22	30.77	18 57	11.24	41	8.74	21 05
14.90	34	81.37	2 35	15.96	50	23.70	9 13	15.24	26	92.64	15 12	14.35	25	31.38	15 58	14.35	52	11.14	25 49
11.67	37	82.06	1 05	15.96	52	24.14	6 44	15.48	26	92.70	18 19	15.77	27	31.75	13 20	15.77	55	11.78	25 14
13.67	37	82.08	2 15	15.96	56	25.08	1 03	14.90	27	92.93	19 47	15.52	29	32.21	10 43	14.69	30 12	15.60	28 52
15.96	40	82.69	4 51	15.28	57	25.36	9 25	15.77	34	94.44	17 42	15.96	33	33.08	11 20	14.56	13	15.79	25 54
12.52	50	84.75	9 58	15.28	58	25.53	6 34	15.52	35	94.60	18 43	13.75	34	33.36	12 49	14.52	14	15.97	29 39
15.52	56	86.20	1 07	15.24	31 4	26.75	7 15	14.26	38	95.30	17 09	14.81	39	34.24	11 03	15.04	15	16.27	26 15
15.52	28 1	87.23	2 28	13.12	18	29.82	4 57	14.69	42	96.01	14 31	11.52	39	34.29	15 46	14.06	19	16.96	24 59
14.60	10	89.24	8 51	13.12	18	29.90	1 49	11.38	51	98.14	16 14	14.47	44	35.51	16 21	14.69	24	18.14	20 10
14.14	12	89.65	7 44	13.41	19	30.09	8 52	15.96	52	98.32	19 18	15.96	46	35.79	16 32	15.96	25	18.36	27 04
15.43	17	90.66	0 22	14.60	20	30.34	2 12	15.62	58	99.46	15 05	13.78	27 16	77.57	27 15	14.35	25	18.43	25 03
14.90	18	90.92	7 57	15.14	22	30.65	4 44	11.10	29 2	0.50	16 53	12.78	18	77.98	21 36	14.52	28	18.90	20 06
15.96	20	91.36	6 33	14.99	22	30.66	1 44	14.77	3	0.64	18 57	14.14	30	80.53	26 37	14.69	28	18.96	24 35

25 prec. + 89 sec. + 6′ 38″.

401—420				421—440				441—460				461—480				481—496			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.96	30 29	19.16	27 05	13.98	27 11	76.52	39 05	15.14	28 30	93.66	39 23	11.82	29 29	6.18	35 49	13.12	30 25	18.37	34 38
15.96	33	19.95	20 07	14.69	11	76.52	31 18	15.96	32	93.94	33 45	12.45	29	6.28	35 23	15.38	26	18.49	35 40
11.76	33	20.10	29 51	13.94	17	77.80	38 11	15.04	34	94.42	36 21	11.24	45	9.76	36 20	15.24	27	18.67	38 06
14.90	37	20.88	27 55	15.96	20	78.46	35 16	15.04	36	94.83	33 52	14.47	45	9.76	36 46	15.96	30	19.30	34 36
15.04	37	20.94	24 31	15.96	32	81.14	37 18	14.02	40	95.66	30 14	12.95	50	10.67	30 42	15.96	33	19.98	38 36
14.14	40	21.59	27 28	15.14	34	81.46	30 29	13.59	41	95.83	39 26	14.26	50	10.71	31 56	12.45	37	20.82	32 10
13.75	49	23.43	23 03	15.62	34	81.56	38 04	13.94	45	96.70	33 37	13.98	51	11.02	38 51	15.28	41	21.69	39 16
13.67	52	24.09	24 52	15.28	41	83.05	36 04	15.77	46	96.93	35 44	15.28	55	11.81	30 29	14.47	52	24.07	32 28
15.96	54	24.59	26 40	13.78	45	83.89	34 33	15.96	47	97.20	38 40	14.90	58	12.39	35 22	12.61	56	24.89	37 41
14.99	31 5	26.88	20 45	15.96	45	83.94	31 03	12.45	50	97.84	32 09	15.96	58	12.44	32 14	15.38	59	25.71	31 55
15.62	6	27.07	25 13	15.96	49	84.65	39 12	15.96	57	99.34	37 08	15.28	59	12.68	30 12	11.41	31 2	26.32	30 47
11.97	11	28.28	24 19	14.06	55	86.09	31 16	15.96	29 1	0.29	32 33	12.13	30 0	12.93	36 57	14.81	16	29.24	34 51
15.96	13	28.72	21 54	15.24	59	86.96	34 56	15.62	3	0.61	31 50	15.96	2	13.35	36 04	13.59	21	30.31	38 31
15.14	25	31.23	26 55	15.62	28 13	89.82	35 54	14.47	6	1.40	33 52	13.94	4	13.87	31 06	14.90	23	30.69	37 31
15.62	27	31.63	27 25	15.77	13	89.90	30 15	14.81	12	2.59	33 12	14.60	6	14.31	37 11	14.26	28	31.89	38 31
13.56	29	32.10	22 54	15.96	18	90.95	35 01	14.14	12	2.62	39 05	13.75	10	14.99	35 02	14.26	43	35.08	31 08
14.99	29	32.13	27 33	12.95	18	91.06	33 03	15.62	13	2.85	38 45	15.96	14	15.95	36 12				
15.62	30	32.27	24 09	14.81	20	91.35	35 30	15.77	14	2.92	35 20	14.77	15	16.22	34 38				
15.48	42	34.93	21 26	14.90	23	91.94	36 52	15.96	16	3.50	33 35	15.62?	17	16.60	30 48				
14.14	27 11	76.45	34 57	14.81	25	92.46	39 53	15.38	22	4.77	36 41	14.39	22	17.56	34 08				

25 prec. + 89 sec. + 6′ 38″.

3h Area 47. Centre for 1900: 3h 23m + 30° 0′. + 29°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.30	20 23	65.90	30 40	16.49	22 25	92.34	39 08	15.55	24 5	14.18	36 39	16.49	23 36	7.82	42 41	15.51	24 34	20.44	44 27
16.49	30	67.36	36 58	15.41	29	93.21	35 23	10.41	12	15.75	35 34	16.49	43	9.33	47 30	15.90	37	20.99	44 10
16.15	32	67.78	37 55	13.72	32	93.85	30 02	15.80	17	16.64	35 34	11.46	43	9.34	41 48	11.49	41	21.95	40 12
9.31	35	68.48	34 29	13.24:	43	96.38	36 27	15.90	26	18.69	38 33	15.03	45	9.82	46 59	11.49	45	22.72	45 22
16.49	39	69.35	32 30	16.30	49	97.66	30 10	16.49	26	18.75	31 11	15.51	46	9.90	45 14	13.48	48	23.38	46 19
15.75	42	70.09	31 59	15.03	23 4	0.94	30 51	15.27	30	19.48	35 04	16.49	54	11.62	48 32	15.12	20 19	65.03	50 05
16.30	51	72.02	37 29	14.79	9	1.99	35 02	16.49	37	21.15	39 03	15.80	56	12.23	48 06	16.49	20	65.41	53 59
14.35	55	72.79	35 41	15.17	20	4.27	36 00	11.56	41	21.98	30 53	15.80	59	12.76	41 11	14.59	23	65.89	58 43
14.44	21 7	75.52	32 51	16.49	25	5.40	32 26	12.54	42	22.18	35 13	15.75	24 0	13.06	49 41	16.49	26	66.63	57 56
15.75	22	78.74	31 55	15.03	38	8.31	30 40	14.69	42	22.28	30 06	7.30*	9	14.92	41 51	15.03	27	66.83	57 34
15.51	30	80.40	38 00	14.79	42	9.06	35 41	16.49	47	23.32	37 19	15.07	15	16.19	44 42	16.15	44	70.57	57 43
15.80	57	86.23	31 18	16.49	45	9.70	30 41	16.05	55	24.92	34 55	15.80	16	16.59	40 14	12.86	52	72.16	59 36
15.41	22 5	88.02	33 35	16.49	47	10.32	31 45	10.74	20 20	65.34	48 03	16.49	20	17.30	47 18	16.49	21 34	81.28	59 21
15.51	5	88.12	33 36	11.47	50	10.88	39 51	15.55	42	70.01	46 13	15.65	20	17.38	40 46	15.51	34	81.46	59 27
16.05	9	88.98	34 32	16.00	52	11.22	31 27	11.96	21 10	76.04	41 19	16.49	20	17.44	47 52	16.05	37	82.00	55 14
9.67	11	89.28	31 16	11.77	58	12.64	37 41	11.58	22 8	88.73	40 27	16.49	21	17.63	44 49	13.58	45	83.70	58 04
14.54	19	91.02	34 46	15.17	59	12.86	35 28	13.96	23 24	5.19	49 54	16.00	24	18.21	43 27	16.49	46	84.07	56 52
15.31	19	91.03	38 55	14.79	24 2	13.38	34 31	15.31	25	5.51	41 53	13.00	24	18.32	49 58	16.49	22 19	91.05	58 47
13.24	21	91.57	32 57	15.80	2	13.52	32 33	15.07	29	6.35	40 58	15.41	27	18.79	43 39	16.49	42	96.09	52 24
15.65	24	92.22	35 33	15.55	3	13.78	38 00	16.49	34	7.47	43 56	14.79	29	19.34	41 29	15.41	43	96.22	53 14

25 prec. + 92 sec. + 5′ 17″.

101—140				141—180				181—220				221—260				261—273			
Int. magn.	α	x	y+60′ / y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.00	22 54	98.68	54 39	15.51	21 32	80.87	7 18	16.49	20 48	71.60	16 20	16.30	24 28	19.10	16 18	13.96	22 43	96.33	24 18
16.49	58	99.52	57 03	15.41	32	80.93	8 50	15.80	49	71.72	16 34	13.24	31	19.55	15 37	14.83	48	97.33	26 54
16.49	23 35	7.54	51 20	14.06	34	81.35	7 54	16.49	50	71.82	10 21	16.49	31	19.75	14 48	15.90	56	99.23	26 55
16.15	39	8.47	54 39	15.17	34	81.40	5 23	15.27	53	72.53	11 43	15.90	35	20.43	18 33	16.49	23 13	2.76	20 46
14.79	41	8.96	52 09	15.55	35	81.58	8 02	15.90	21 2	74.50	14 59	16.21	37	21.02	19 59	16.49	15	3.29	27 26
15.90	58	12.51	50 51	10.55	35	81.67	9 07	13.38	2	74.57	18 26	16.15	20 19	65.38	25 16	16.05	19	4.10	23 29
14.93	59	12.79	51 29	15.41	55	85.92	7 29	13.96	4	74.97	16 34	15.65	20	65.61	29 04	16.49	22	4.69	27 18
16.49	24 3	13.65	53 13	16.00	55	86.00	7 54	15.17	9	75.96	13 15	16.15	21	65.73	27 11	15.65	38	8.20	21 57
15.65	4	13.98	53 06	16.49	22 0	86.99	8 22	15.27	13	76.86	19 49	11.86	21	65.75	26 20	16.05	50	10.78	20 11
14.93	25	18.33	52 05	14.69	33	94.08	2 00	15.03	17	77.82	11 11	15.31	23	66.18	27 36	14.83	53	11.52	27 36
15.75	26	18.52	52 50	7.11*	38	95.35	1 42	16.49	18	78.02	18 03	15.17	37	69.11	20 51	15.80	24 15	16.27	21 14
16.30	26	18.61	55 04	16.49	55	98.86	9 29	14.20	20	78.36	12 39	16.00	37	69.15	27 33	11.59	17	16.65	26 23
16.49	27	18.87	53 21	15.55	55	99.00	7 29	16.49	21	78.55	15 14	15.95	42	70.28	20 11	16.30	45	22.55	28 09
14.20	33	20.10	53 56	15.41	23 0	99.97	3 30	16.00	22	78.89	16 32	16.49	44	70.63	23 22				
11.26	41	21.94	50 59	15.31	4	0.82	2 56	15.75	22	78.95	14 04	14.69	46	71.16	20 00				
16.49	42	22.20	55 04	15.55	12	2.59	8 16	15.07	23	79.08	18 38	14.20	48	71.47	26 02				
15.80	43	22.26	57 57	12.07	27	5.77	7 37	15.51	24	79.32	10 45	16.49	48	71.65	28 13				
16.49	44	22.48	54 23	15.75	40	8.57	1 19	16.30	28	80.07	15 15	14.30	51	72.22	29 49				
15.03	44	22.56	55 15	15.80	41	8.78	4 16	16.21	34	81.48	10 24	15.07	52	72.37	28 24				
16.49	54	24.79	51 20	15.80	45	9.73	6 32	16.49	36	81.94	16 42	15.27	52	72.39	28 16				
16.05	20 23	65.99	6 28	10.34	45	9.82	0 05	16.49	39	82.45	12 35	16.15	53	72.54	25 41				
15.07	35	68.59	2 12	11.40	24 0	13.03	2 07	16.49	39	82.58	12 57	14.44	59	73.82	23 45				
15.75	39	69.54	8 32	14.88	27	18.83	9 50	13.24	39	82.58	13 42	16.05	21 2	74.45	26 51				
15.03	40	69.68	4 26	15.51	28	19.05	7 00	15.41	41	82.91	16 33	15.51	10	76.19	22 25				
15.90	40	69.79	9 26	16.49	42	22.13	7 32	15.41	43	83.29	11 03	16.30	17	77.77	27 40				
15.31	43	70.33	8 36	16.49	20 20	65.43	12 27	14.79	45	83.72	17 16	15.80	17	77.86	22 14				
15.03	43	70.40	2 19	16.49	24	66.30	15 14	16.49	47	84.19	12 45	10.54	20	78.54	22 21				
15.17	52	72.40	0 43	15.17	25	66.44	15 35	12.77	49	84.57	19 20	15.03	26	79.80	24 19				
16.15	57	73.30	1 11	15.07	25	66.57	15 22	15.90	50	84.96	17 06	15.55	35	81.59	24 22				
15.75	21 0	73.99	6 11	14.06	28	67.23	11 19	16.00	52	85.34	18 24	15.75	38	82.42	29 10				
16.49	4	74.92	7 02	16.30	37	69.13	16 49	16.00	22 25	92.38	14 00	15.41	40	82.84	22 43				
16.15	5	75.07	5 35	15.80	37	69.20	19 31	15.75	43	96.28	10 12	15.75	45	83.78	29 16				
15.31	7	75.61	8 30	15.55	38	69.36	10 55	10.62	45	96.82	16 51	15.75	59	86.79	20 53				
16.15	8	75.69	8 26	13.72	40	69.71	15 10	15.90	46	96.95	16 29	15.31	22 1	87.35	25 35				
15.51	9	76.09	8 36	16.49	41	69.99	12 07	16.05	23 12	2.70	19 13	16.05	9	89.10	20 29				
15.27	11	76.43	7 19	11.42	43	70.44	13 19	16.49	55	11.98	14 25	15.41	10	89.27	29 58				
14.93	17	77.67	1 57	16.49	44	70.69	16 45	16.49	57	12.41	14 35	16.49	20	91.49	27 00				
15.17	21	78.60	8 41	16.05	47	71.19	10 49	15.51	24 2	13.33	17 12	10.54	25	92.51	24 57				
16.49	21	78.65	4 22	15.17	47	71.30	16 15	13.96	10	15.01	15 27	16.30	26	92.62	22 35				
15.90	28	79.99	9 51	12.77	48	71.43	13 50	16.49?	26	18.55	10 23	12.68	38	95.23	20 30				

25 prec. + 92 sec. + 5′ 19″.

Area 48. Centre for 1900: $4^h\ 23^m + 30^\circ\ 10'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$ / $y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.75	21 5	75.14	50 10	15.56	23 3	0.74	58 47	14.29	22 3	87.58	3 00	15.98	23 22	4.76	4 43	15.98	21 37	82.01	19 53
15.33	9	75.91	56 57	15.33	13	2.92	59 17	15.98	3	87.76	9 15	13.88	24	5.21	8 43	15.13	38	82.31	13 00
14.50	10	76.13	56 21	14.84	31	6.64	56 11	15.98	5	88.19	4 58	15.13	25	5.47	9 40	15.04	38	82.32	18 24
12.97	10	76.21	59 24	14.21	32	6.88	57 34	13.92	6	88.43	5 59	15.98	27	5.74	9 06	14.63	39	82.49	14 11
15.98	13	76.83	59 40	14.34	43	9.22	59 53	15.79	7	88.52	5 56	14.13	28	6.02	1 17	14.50	39	82.50	19 55
14.00	20	78.24	55 40	15.56	44	9.44	59 31	15.98	9	88.95	1 57	11.06	31	6.61	8 18	15.79	39	82.59	13 01
12.15	23	79.02	53 50	15.98	44	9.50	54 53	15.98	22	91.73	2 16	15.98	32	6.89	8 56	15.33	42	83.09	17 18
15.25	27	79.75	57 09	15.56	45	9.66	53 28	15.17	23	91.94	4 54	15.98	34	7.27	6 39	13.51	42	83.11	10 20
15.79	35	81.65	50 26	14.55	47	10.15	52 37	15.79	23	91.99	4 13	15.56	34	7.39	4 27	14.96	42	83.14	13 16
15.33	36	81.74	50 57	14.34	50	10.79	51 54	14.84	25	92.37	2 36	15.37	34	7.46	7 30	14.08	43	83.44	14 23
13.59	37	82.01	50 51	15.98	52	11.21	59 09	15.98	26	92.61	8 33	12.97	35	7.52	5 25	15.98	44	83.50	12 10
14.76	42	83.06	57 12	15.98	53	11.38	54 04	11.57	26	92.67	3 39	15.98	36	7.78	5 58	15.25	44	83.57	11 30
15.98	46	83.98	58 34	15.98	56	12.11	58 48	14.29	26	92.75	4 51	14.29	37	8.11	6 58	14.50	44	83.61	14 27
15.98	47	84.10	59 04	15.33	57	12.38	50 47	15.98	28	93.11	3 10	15.98	42	9.13	4 11	13.51	47	84.14	10 34
15.33	47	84.22	58 38	15.33	59	12.79	56 03	15.98	29	93.26	3 14	14.13	43	9.34	5 17	15.98	47	84.15	14 56
15.98	47	84.23	50 36	13.18	59	12.80	50 33	11.33	31	93.67	6 24	15.44	44	9.53	1 27	14.76	50	84.83	15 04
14.63	50	84.79	51 40	15.56	21 2	74.46	6 44	15.56	31	93.73	5 39	15.37	44	9.60	5 04	15.98	53	85.56	10 20
14.42	50	84.91	58 38	15.98	4	74.87	0 24	14.21	32	93.89	6 35	15.98	45	9.82	9 28	14.84	54	85.65	18 33
15.98	50	84.94	59 05	14.76	6	75.27	3 08	15.98	33	94.15	1 02	13.79	46	10.04	9 56	14.92	55	85.85	12 08
14.21	51	85.00	51 51	15.98	6	75.36	0 58	6.86*:	33	94.24	8 25	11.75	48	10.31	8 41	14.08	55	85.87	14 52
15.17	53	85.38	52 06	14.42	9	75.99	8 37	15.44	36	94.82	0 25	15.98	48	10.35	6 13	15.98	55	85.97	10 46
15.64	54	85.60	59 34	13.59	12	76.73	1 05	15.17	38	95.19	4 49	15.98	51	10.94	0 50	15.98	57	86.35	17 12
14.55	57	86.39	50 26	14.29	18	77.94	4 12	15.98	39	95.41	8 37	15.98	51	11.12	7 35	14.63	57	86.37	15 15
15.98	59	86.67	50 34	15.79	19	78.07	4 45	15.04	45	96.78	5 58	14.96	54	11.66	8 12	15.98	58	86.58	14 07
11.39	59	86.70	58 55	14.25	21	78.68	0 08	15.44	48	97.44	8 45	15.98	54	11.79	8 56	15.13	58	86.70	15 53
15.98	59	86.70	51 44	13.38	22	78.86	6 29	15.52	48	97.49	8 00	15.79	55	11.96	3 02	15.44	22 2	87.54	10 23
14.50	22 2	87.49	52 15	15.17	24	79.14	9 46	15.98	49	97.54	5 09	15.13	56	12.10	7 56	14.84	3	87.68	18 26
15.64	3	87.74	51 13	15.13	26	79.72	6 10	15.56	49	97.66	8 19	15.13	58	12.56	2 40	14.29	3	87.73	18 20
15.98	9	88.88	57 28	13.67	27	79.78	4 36	15.04	50	97.76	2 57	13.51	58	12.60	9 38	15.98	5	88.12	17 41
15.17	9	89.05	57 06	10.31*	30	80.42	0 53	15.33	50	97.77	9 28	15.52	24 1	13.16	8 18	14.00	5	88.17	16 34
15.98	10	89.14	54 10	15.98	30	80.46	9 46	13.18	52	98.20	7 23	15.52	1	13.29	6 25	15.98	6	88.25	10 29
15.98	10	89.18	53 00	15.79	32	80.94	6 06	15.79	52	98.32	5 29	15.56	2	13.33	8 56	14.50	7	88.46	14 35
15.98	12	89.50	58 34	12.15	32	81.00	6 58	15.98	53	98.40	5 10	14.63	3	13.68	7 22	14.71	10	89.22	12 48
14.38	18	90.84	59 46	15.64	32	81.07	9 00	14.29	56	99.20	9 34	14.42	21 1	74.41	16 52	15.33	11	89.32	18 29
15.79	18	90.91	58 48	15.98	33	81.11	5 21	14.55	59	99.75	3 33	14.71	2	74.59	18 36	15.98	11	89.37	12 21
15.98	19	91.02	58 34	15.98	33	81.24	7 29	12.43	23 2	0.36	9 42	15.79	2	74.63	14 52	14.50	11	89.41	11 56
14.92	19	91.09	52 57	15.98	37	82.03	9 38	15.98	4	0.80	7 09	15.44	3	74.83	18 35	12.76	12	89.65	16 11
15.64	22	91.82	50 52	15.64	39	82.48	9 01	13.30	4	0.86	9 56	12.76	8	75.90	18 28	15.98	14	90.13	12 13
15.79	31	93.75	58 49	15.52	39	82.58	1 13	15.98	7	1.58	8 45	14.55	11	76.55	11 36	15.98	16	90.41	12 48
14.92	32	93.84	51 17	15.04	44	83.48	7 08	12.76	9	1.91	5 58	15.98	14	77.10	11 03	12.76	16	90.53	19 24
14.42	32	93.89	54 41	15.52	45	83.73	7 09	14.96	10	2.15	4 40	15.13	14	77.21	12 53	15.56	17	90.64	16 39
13.67	32	93.98	52 39	15.98	47	84.10	3 14	14.96	12	2.54	9 07	15.25	15	77.35	16 53	15.79	17	90.75	17 24
15.64	39	95.54	52 13	14.96	49	84.67	3 10	15.64	13	2.82	4 49	15.25	15	77.38	12 21	14.71	20	91.38	17 56
15.98	42	96.06	51 54	14.00	50	84.90	7 25	14.71	13	2.86	8 05	15.79	20	78.46	19 35	15.25	20	91.46	17 31
13.18	49	97.56	56 21	14.63	52	85.34	2 42	15.33	16	3.48	5 57	15.37	23	79.02	18 13	15.98	21	91.58	19 21
14.84	51	98.00	58 41	14.76	52	85.35	6 09	14.55	19	4.04	6 37	13.30	27	80.00	13 31	15.98	22	91.74	10 47
15.04	55	98.98	51 26	13.59	53	85.50	7 40	15.98	19	4.05	2 53	12.97	31	80.77	18 59	14.55	24	92.24	14 54
13.51	57	99.33	59 43	15.98	56	86.11	2 42	14.63	19	4.07	8 44	15.64	31	80.77	13 43	15.98	24	92.30	16 24
15.41	58	99.66	59 54	15.25	57	86.37	2 46	15.64	21	4.56	4 52	11.95	31	80.86	10 56	15.56	28	93.11	11 41
15.33	23 0	99.93	52 46	14.76	22 0	86.94	7 35	14.55	21	4.56	2 55	15.17	34	81.36	19 39	15.98	28	93.12	17 06

25 prec. + 95 sec. + 3′ 27″.

251—300				301—350				351—400				401—450				451			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.60	22 29	93.32	10 05	14.76	23 38	8.26	11 04	15.17	22 1	87.27	26 58	15.52	22 58	99.59	22 44	15.98	24 3	13.60	24 15
15.98	32	94.00	18 22	15.44	41	8.81	16 52	14.34	2	87.53	24 32	15.56	59	99.73	21 24				
15.98	33	94.16	17 04	15.98	41	8.87	15 53	15.64	5	88.19	24 17	15.98	23 0	0.04	24 51				
15.79	33	94.17	12 17	12.76	41	8.88	13 50	14.21	8	88.83	27 11	15.98	1	0.22	29 37				
15.98	33	94.25	13 56	15.79	41	8.93	14 46	13.79	9	88.91	23 55	15.79	1	0.30	21 49				
11.95	34	94.30	11 59	15.98	42	9.10	19 33	15.98	9	89.08	24 17	11.95	1	0.31	20 50				
12.76	36	94.77	13 23	15.98	43	9.30	19 49	15.98	10	89.20	20 27	14.71	2	0.52	22 09				
13.67	36	94.86	18 45	14.29	45	9.77	11 31	15.98	10	89.33	26 16	14.29	3	0.67	21 15				
15.64	38	95.22	11 11	15.33	46	9.86	16 15	15.98	11	89.48	29 09	15.98	4	0.86	28 04				
15.98	38	95.35	19 17	9.73*	48	10.46	18 59	14.84	12	89.61	23 31	12.55	6	1.24	28 32				
15.44	39	95.39	14 44	15.52	49	10.65	17 58	14.84	12	89.70	26 31	15.13 :	7	1.60	29 58				
15.98	39	95.55	18 48	14.92	50	10.71	11 38	11.36	12	89.70	22 29	15.79	8	1.68	28 28				
14.76	41	95.88	19 41	15.13	52	11.21	11 34	15.98	13	89.86	23 33	15.98	9	1.86	20 07				
14.96	42	96.16	10 26	15.98	52	11.22	10 55	15.98	13	89.88	25 50	15.37	11	2.34	22 43				
15.98	44	96.54	15 28	15.33	55	11.80	18 52	12.97	14	90.16	26 27	15.04	15	3.22	27 10				
14.92	45	96.80	10 43	13.18	57	12.24	17 22	13.30	14	90.17	23 45	15.25	15	3.24	26 50				
14.13	46	96.89	13 26	15.98	59	12.66	13 09	12.43	16	90.46	20 21	15.17	17	3.66	20 16				
15.98	46	97.02	12 35	15.64	59	12.80	12 59	15.64	17	90.74	29 28	13.38	18	3.78	20 46				
12.97	47	97.24	15 16	14.08	24 2	13.38	14 35	11.95	19	91.07	25 16	15.98	18	3.85	26 50				
15.64	50	97.75	16 03	15.98	4	13.83	19 18	15.98	22	91.78	29 17	15.98	19	4.08	20 51				
15.37	50	97.90	16 38	15.98	21 0	74.09	21 23	15.79	26	92.60	25 09	13.79	21	4.45	20 35				
14.34	53	98.51	14 57	15.79	1	74.26	27 00	15.98	27	92.84	20 24	15.98	21	4.49	26 54				
15.13	53	98.54	12 55	14.21	1	74.40	27 03	15.64	32	94.07	26 49	15.37	21	4.58	24 53				
15.04	55	99.00	19 11	15.52	7	75.67	24 55	13.92	33	94.13	22 45	10.58	22	4.81	27 48				
14.84	56	99.10	10 02	15.44	7	75.69	25 43	15.79	33	94.17	24 37	15.98	23	4.96	23 17				
13.67	23 1	0.22	13 05	14.76	13	77.01	29 45	13.30	34	94.40	29 14	15.98	23	5.03	20 01				
14.42	2	0.43	15 58	15.79	14	77.18	29 03	15.64	35	94.53	22 13	14.84	26	5.51	25 54				
13.10	5	1.00	19 23	15.17	16	77.51	21 11	15.98	35	94.65	21 25	15.13	26	5.71	29 45				
14.84	5	1.07	14 47	15.25	16	77.53	21 34	14.13	37	95.12	23 47	14.76	28	6.12	26 49				
14.42	5	1.18	14 41	13.88	16	77.64	21 42	14.00	38	95.15	25 33	15.98	30	6.50	22 57				
14.13	7	1.44	11 50	15.98	23	79.03	21 11	14.84	40	95.68	26 20	15.25	33	7.05	28 15				
14.84	9	1.86	10 28	15.52	28	80.07	24 42	12.76	40	95.70	21 02	15.98	33	7.12	23 51				
15.52	10	2.09	10 57	13.10	34	81.42	20 14	15.25	41	95.82	26 23	15.17	33	7.14	23 03				
15.33	13	2.77	19 51	15.64	34	81.53	20 29	14.42	42	96.21	26 20	11.24	34	7.34	29 22				
14.00	13	2.81	13 35	15.98	36	81.97	25 20	14.21	43	96.27	20 53	15.37	41	8.92	28 10				
14.55	15	3.24	13 35	15.17	37	82.11	20 13	15.04	45	96.76	25 49	12.97	45	9.66	26 51				
14.17	15	3.28	10 19	13.18	37	82.16	22 01	15.98	45	96.83	23 27	15.98	47	10.20	20 19				
13.71	15	3.33	18 55	14.84	37	82.19	24 30	14.84	46	96.94	21 25	15.64	50	10.77	23 31				
15.98	16	3.56	10 37	15.98	39	82.46	29 39	15.33	48	97.40	27 39	15.98	50	10.87	22 30				
14.63	19	4.01	10 17	14.92	39	82.52	26 00	15.37	49	97.54	26 40	14.55	51	11.03	25 26				
15.98	23	5.02	18 55	15.64	51	85.18	24 04	14.42	49	97.57	26 02	15.44	52	11.28	27 34				
12.84	26	5.69	19 29	13.71	52	85.32	27 42	15.64	51	97.97	21 49	15.44	53	11.38	24 41				
15.98	27	5.79	17 48	11.37	53	85.59	25 59	15.64	51	97.98	22 33	15.98	54	11.74	20 38				
15.79	29	6.17	17 23	15.79	56	86.10	25 23	14.92	51	98.13	20 31	10.42	55	11.86	29 56				
15.98	30	6.58	13 29	11.95	56	86.18	28 53	14.21	52	98.20	28 11	15.98	56	12.04	22 39				
14.92	32	6.91	17 46	15.98	56	86.18	23 39	15.25	52	98.24	25 07	13.33	57	12.20	27 16				
14.42	33	7.22	19 22	14.50	58	86.65	21 04	15.25	52	98.34	26 33	14.00	57	12.37	28 50				
15.98	35	7.47	15 56	15.56	59	86.74	22 12	15.98	53	98.48	25 48	15.98	24 0	13.00	27 40				
13.18	35	7.58	11 15	15.33	59	86.74	20 54	14.21	54	98.63	29 20	15.44	1	13.07	21 03				
15.04	36	7.80	17 33	15.98	22 1	87.21	21 15	15.98	58	99.54	24 26	14.08	2	13.33	24 52				

25 prec. + 95 sec. + 3′ 26″.

Area 49. Centre for 1900: $5^h\ 24^m + 29^\circ\ 40'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.51	22 10	76.05	27 46	10.60	22 51	84.99	22 13	15.27	23 24	92.23	29 34	14.78	24 4	0.79	22 56	15.27	25 3	13.73	23 03
14.91	10	76.05	24 53	14.78	52	85.19	20 07	15.74	27	92.84	23 45	13.81	5	1.14	27 38	14.82	6	14.27	26 46
15.93	10	76.08	22 08	13.17	52	85.26	28 12	14.82	28	93.04	24 14	12.75	5	1.17	26 39	15.93	8	14.73	22 21
15.93	12	76.51	28 17	11.95	53	85.36	24 51	15.59	28	93.08	21 27	14.60	5	1.18	20 04	15.14	8	14.91	29 10
15.93	12	76.52	23 38	15.93	53	85.41	27 19	15.23	28	93.14	28 55	14.91	7	1.57	27 40	15.27	11	15.54	24 28
15.27	13	76.71	22 52	14.55	58	86.46	29 25	15.05	29	93.21	21 00	15.93	7	1.60	26 52	15.93	12	15.59	27 07
15.50	13	76.78	20 09	15.59	58	86.53	25 54	13.17	34	94.32	25 14	14.07	10	2.25	29 37	13.94	22 10	76.02	38 02
14.47	14	76.91	21 02	14.16	58	86.57	24 28	15.93	35	94.47	22 08	14.60	10	2.27	26 50	15.23	10	76.08	35 44
15.93	14	76.96	24 39	15.93	59	86.67	20 56	15.00	35	94.51	20 21	14.55	11	2.50	26 37	15.93	11	76.21	32 04
15.93	17	77.51	29 06	15.74	23 0	86.83	24 16	14.60	35	94.56	29 33	14.82	12	2.61	25 43	15.93	11	76.27	36 34
15.14	18	77.69	28 29	13.64	0	87.04	29 38	15.05	35	94.62	26 49	15.59	12	2.68	20 22	12.15	12	76.61	34 49
15.50	18	77.82	29 31	15.74	1	87.21	29 14	12.96	36	94.71	24 16	13.81	13	2.89	29 26	15.93	14	76.94	32 00
15.93	18	77.87	20 59	15.93	2	87.31	25 45	15.27	36	94.73	20 21	15.27	14	3.00	29 36	15.93	18	77.76	36 22
15.36	20	78.11	25 12	15.45?	4	87.77	27 44	14.16	36	94.73	22 00	14.12	14	3.07	22 10	15.74	18	77.79	32 05
14.16	20	78.18	22 00	14.60	4	87.77	20 37	15.14	36	94.81	22 41	13.04	15	3.24	20 47	14.47	19	78.04	32 04
15.23	20	78.22	29 15	13.51	4	87.79	29 06	15.93	36	94.86	23 32	14.16	16	3.39	25 12	15.93	19	78.10	31 10
12.88	20	78.25	20 13	15.14	4	87.83	24 34	15.93	40	95.56	22 05	13.38	16	3.49	24 47	15.93	21	78.38	31 54
15.93	24	79.00	27 05	15.14	5	88.12	22 48	15.59	41	95.82	21 49	15.93	18	3.98	22 38	15.45	21	78.44	33 34
15.59	24	79.10	21 10	15.93	6	88.19	28 08	15.93	43	96.35	29 54	15.93	19	4.16	21 25	15.23	22	78.72	30 55
15.93	25	79.23	26 46	15.93	6	88.21	27 35	15.74	43	96.35	24 17	15.27	20	4.24	20 46	15.93	22	78.75	38 50
14.16	25	79.25	21 02	15.93	6	88.28	24 30	7.8 1)	44	96.49	28 16	15.27	20	4.30	24 10	15.93	22	78.78	30 23
11.38	26	79.49	26 34	15.93	7	88.46	28 08	15.45	45	96.78	20 36	14.91	20	4.37	29 17	14.47	23	78.98	33 31
14.38	26	79.50	28 18	11.71	8	88.64	29 30	15.93	47	97.12	25 07	15.93	22	4.70	26 48	15.27	24	79.08	33 02
15.93	27	79.68	24 57	15.45	8	88.69	24 37	15.74	47	97.20	26 14	12.15	22	4.90	24 27	15.59	25	79.44	30 43
15.36	29	80.17	27 00	15.59	8	88.74	28 29	15.59	48	97.41	22 25	15.27	24	5.15	28 59	15.93	26	79.45	37 51
15.59	31	80.60	21 32	15.93	8	88.76	23 58	14.03	49	97.65	24 19	15.93	25	5.48	22 56	15.93	26	79.61	37 51
14.38	31	80.66	27 43	15.05	9	88.87	21 01	15.59	49	97.68	20 39	15.36	26	5.72	21 32	15.74	27	79.73	33 43
15.27	32	80.75	28 49	13.90	9	88.95	22 56	15.93	50	97.80	25 03	15.14	28	6.06	26 47	15.27	27	79.79	33 50
15.27	32	80.78	25 31	15.93	9	88.99	27 51	15.74	50	97.83	26 32	15.05	29	6.28	21 56	15.93	27	79.83	38 06
13.68	32	80.91	26 32	13.94	10	89.14	28 21	15.05	51	98.03	25 47	15.93	31	6.66	23 22	15.36	27	79.87	33 33
14.78	35	81.40	29 24	15.93	11	89.29	21 46	15.27	51	98.10	29 45	15.05	31	6.70	24 12	12.75	28	79.92	31 28
15.93	36	81.61	29 04	13.09	13	89.73	20 07	15.93	51	98.11	27 18	15.93	32	6.89	27 25	15.59	28	79.94	39 16
15.50	36	81.62	25 44	14.03	13	89.76	28 55	15.93	52	98.24	28 35	14.91	34	7.31	27 52	15.93	28	79.98	35 42
15.93	36	81.76	23 13	15.23	14	89.93	22 08	15.23	53	98.41	25 25	12.35	34	7.50	23 43	15.93	28	80.08	36 53
14.47	37	82.01	21 02	15.50	14	89.94	22 49	11.76	53	98.45	22 34	14.34	36	7.81	26 32	15.59	28	80.09	32 15
15.74	38	82.11	20 52	15.23	15	90.29	22 20	15.14	53	98.51	27 10	15.27	36	7.91	29 04	15.93	29	80.28	33 03
13.09	38	82.19	26 25	15.14	16	90.36	29 56	14.60	53	98.54	27 06	15.93	40	8.79	24 20	14.60	31	80.67	36 20
15.93	39	82.42	26 47	15.50	17	90.54	20 44	15.93	54	98.59	24 18	15.27	41	9.03	24 52	15.27	31	80.73	34 13
15.27	40	82.64	21 43	13.25	17	90.55	20 17	15.50	55	98.83	22 12	15.74	42	9.05	20 45	15.93	32	80.82	36 55
15.93	41	82.73	26 44	15.23	17	90.67	26 50	15.74	56	99.03	29 49	13.17	42	9.06	27 23	15.36	33	81.11	32 43
14.91	41	82.80	20 39	11.27	18	90.93	25 41	9.94	58	99.49	24 45	14.55	42	9.16	21 59	15.23	33	81.14	32 05
14.60	41	82.83	22 18	14.25	19	91.00	27 46	13.90	58	99.52	28 26	15.74	47	10.33	21 59	15.27	35	81.51	37 35
15.27	41	82.89	21 30	14.34?	19	91.05	23 29	15.50	58	99.55	22 56	15.93	52	11.31	27 35	13.72	35	81.59	33 46
15.59	42	83.04	21 15	15.23	21	91.46	24 12	15.93	59	99.81	26 44	15.93	53	11.54	27 31	15.00	37	81.91	33 04
15.59	42	83.08	27 27	14.16	21	91.49	20 58	15.36	24 0	0.00	29 46	15.93	53	11.55	21 10	15.05	37	81.94	37 05
13.47	43	83.14	27 12	15.14	22	91.72	21 55	15.93	0	0.05	23 17	15.93	53	11.57	20 46	15.14	38	82.06	30 34
15.50	47	84.13	20 14	15.00	22	91.77	24 41	14.47	0	0.08	26 46	15.45	56	12.27	21 00	15.27	38	82.10	36 05
12.96	50	84.77	25 03	15.36	22	91.80	23 29	13.25	1	0.21	29 11	14.78	56	12.28	29 58	15.27	38	82.11	31 08
15.05	50	84.86	28 30	15.59	24	92.06	22 09	15.14	1	0.21	28 03	14.69	58	12.58	23 19	15.93	39	82.29	36 19
15.23	51	84.89	27 54	15.14	24	92.17	23 52	15.74	1	0.30	26 32	13.90	25 0	13.01	28 07	15.27	39	82.41	38 33

1) Visual magn. from A. G. C. Cambridge (Engl.) + 0·5.

25 prec. + 95 sec. + 1′ 20″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.45	22 40	82.67	34 41	11.84	23 19	91.10	30 12	15.59	23 53	98.56	39 19	15.93	24 21	4.62	32 36	14.82	22 11	76.40	41 52
15.00	41	82.85	30 50	15.93	19	91.15	34 50	15.59	56	99.13	35 40	15.93	23	5.01	30 31	15.93	12	76.46	45 32
15.93	41	82.88	37 35	15.93	20	91.32	38 32	15.32	56	99.23	30 24	14.69	23	5.09	32 12	15.59	12	76.66	47 09
14.91	41	82.91	39 04	15.23	20	91.36	30 26	14.82	57	99.26	36 14	15.14	24	5.30	31 22	15.36	15	77.25	49 15
15.93	42	82.95	32 26	15.45	21	91.52	36 41	15.45	57	99.30	36 29	13.72	26	5.69	31 59	14.78	17	77.58	43 31
14.47	42	83.05	35 10	15.27	21	91.55	35 42	15.93	57	99.33	31 53	15.93	27	5.79	38 52	15.00	17	77.59	48 14
15.27	43	83.27	37 23	15.93	21	91.57	34 45	15.74	57	99.40	35 41	15.93	28	6.02	35 32	15.93	17	77.69	45 04
15.93	44	83.45	37 09	14.16	22	91.63	39 46	15.36	58	99.52	38 19	15.59	28	6.05	30 24	15.59	18	77.81	44 45
15.50	44	83.49	31 04	15.27	23	91.91	35 28	15.36	58	99.55	31 27	15.93	28	6.10	38 59	14.91	19	78.05	45 38
15.93	45	83.61	32 39	14.60	23	91.94	31 24	13.72	58	99.57	31 57	15.32	29	6.26	39 36	15.74	19	78.10	46 58
15.23	45	83.72	33 06	15.41	25	92.42	30 20	15.36	58	99.58	30 53	14.60	29	6.37	35 23	15.93	20	78.23	48 29
13.38	46	83.84	33 29	14.34	25	92.46	33 42	15.74	59	99.72	38 17	15.93	30	6.51	33 34	12.75	20	78.35	41 27
15.14	46	84.00	36 27	14.38	26	92.55	32 09	11.46	24 0	99.96	37 25	15.59	31	6.64	32 03	14.82	21	78.54	49 17
15.93	47	84.10	37 40	15.74	27	92.91	36 44	15.93	0	99.97	30 48	15.23	31	6.68	30 37	15.93	21	78.58	48 59
12.96	48	84.25	36 44	15.27	30	93.38	37 33	15.50	0	0.00	33 32	15.93	31	6.73	33 31	15.59	22	78.64	42 56
15.23	48	84.32	34 08	11.68	30	93.45	39 49	13.17	1	0.13	39 24	14.55	32	6.93	39 10	15.36	22	78.65	43 21
14.55	50	84.84	33 54	15.50	30	93.45	34 57	15.59	1	0.23	37 19	11.07	35	7.62	37 35	14.60	23	78.90	41 33
14.38	51	84.90	38 11	15.45	30	93.48	31 54	15.74	1	0.29	31 32	15.93	39	8.57	38 58	14.55	23	79.02	41 52
15.23	51	84.90	34 43	15.50	31	93.64	31 00	15.05	2	0.35	33 54	15.93	41	8.91	31 58	15.74	24	79.09	46 19
14.69	52	85.12	34 38	15.59	32	93.94	35 24	15.59	3	0.73	36 01	15.93	42	9.18	36 36	12.55	24	79.23	45 05
15.93	54	85.55	31 40	15.74	33	94.18	35 40	15.74	4	0.84	32 10	14.82	43	9.41	31 22	15.05	25	79.31	44 32
15.93	54	85.57	36 49	15.36	34	94.26	33 10	14.78	4	0.91	37 13	14.34	44	9.51	34 22	15.05	25	79.36	44 40
14.91	55	85.85	35 43	15.93	34	94.35	33 51	15.93	5	1.01	32 05	12.35	44	9.67	34 28	15.59	25	79.38	43 31
13.68	55	85.89	30 40	14.69	34	94.42	37 48	15.45	5	1.16	37 21	15.74	45	9.71	36 56	14.82	25	79.40	42 22
15.00	58	86.50	36 44	14.16	35	94.46	34 21	14.25	6	1.22	34 42	15.27	46	10.07	37 09	14.82?	26	79.51	48 03
15.93	58	86.55	30 46	15.59	36	94.74	30 43	15.93	6	1.37	31 25	14.34	47	10.20	31 10	15.93	26	79.69	42 57
14.38	59	86.84	34 23	13.30	37	94.90	30 38	15.05	7	1.46	38 38	15.14	49	10.68	36 09	15.93	28	79.97	42 01
15.50	23 0	87.01	33 23	15.93	37	94.95	35 22	13.09	7	1.50	36 19	15.93	50	10.79	38 05	14.03	28	80.03	47 27
15.93	1	87.12	33 14	15.93	37	95.05	39 01	15.93	8	1.83	30 27	15.93	52	11.29	37 31	15.65	28	80.08	49 50
15.27?	1	87.13	32 16	14.25	37	95.10	39 23	15.93	9	2.04	33 15	14.25	53	11.48	37 33	15.14	28	80.11	43 43
15.50	1	87.16	30 17	14.16	40	95.54	39 45	14.38	10	2.19	32 46	15.23	54	11.70	37 00	12.35	28	80.12	44 49
15.74	2	87.48	30 02	14.60	40	95.74	30 06	15.27	10	2.22	30 54	15.50	55	12.05	30 41	15.14	29	80.21	49 25
10.69	3	87.51	31 41	15.45	43	96.34	33 10	15.65	12	2.56	30 11	15.74	57	12.31	38 00	13.59	29	80.24	45 58
15.59	4	87.72	33 09	15.05	43	96.38	30 16	11.76	12	2.70	39 51	15.93	57	12.49	31 41	14.82	31	80.68	46 44
13.81	4	87.73	38 53	13.72	44	96.53	31 49	15.59	14	2.94	34 09	15.74	25 0	13.08	36 06	15.93	32	80.79	46 23
15.74	4	87.92	36 21	13.30	44	96.54	39 57	15.23	14	3.01	38 30	15.00	0	13.11	38 01	15.00	33	81.09	44 11
13.38	5	88.02	37 49	15.23	44	96.54	35 14	15.27	15	3.19	30 56	15.14	1	13.25	32 36	15.93	33	81.23	47 03
15.27	8	88.66	36 55	15.93	44	96.59	35 25	12.75	15	3.24	38 43	15.93	2	13.42	31 10	15.93	34	81.26	42 05
14.78	8	88.79	39 52	15.27	44	96.63	34 14	14.34	17	3.73	38 38	15.00	2	13.50	35 30	15.05	34	81.26	49 38
15.93	9	88.95	35 45	12.55	46	97.05	33 30	14.16	17	3.73	35 10	15.36	3	13.61	39 44	15.59	34	81.28	49 41
15.93	10	89.23	30 56	11.33	47	97.16	36 07	15.27	18	3.90	33 30	15.23	5	14.15	39 29	15.50	34	81.39	46 51
15.93	13	89.74	33 58	15.00	49	97.51	30 57	15.93	18	3.97	32 46	15.93	5	14.18	34 27	15.74	35	81.53	47 45
15.45	13	89.88	35 25	13.72	49	97.67	30 57	14.38	18	4.00	36 45	13.51	6	14.41	34 00	15.59	35	81.61	47 48
15.05	15	90.17	31 34	12.75	51	97.94	32 06	15.27	19	4.07	35 28	15.93	7	14.59	38 02	15.50	36	81.80	47 24
15.93	15	90.24	33 41	15.93	51	97.95	33 23	14.25	19	4.17	34 51	15.27	7	14.66	37 33	15.59	37	81.91	47 19
15.50	15	90.26	30 31	14.78	51	98.02	33 00	15.93	20	4.27	34 41	15.93	8	14.75	35 30	15.93	38	82.09	42 52
15.14	16	90.32	32 07	15.93	51	98.03	34 10	13.90	20	4.30	36 44	15.23	10	15.16	38 47	13.81	38	82.22	46 32
15.93	16	90.38	30 50	15.93	52	98.27	38 44	15.93	20	4.44	37 03	15.50	11	15.38	36 51	14.69	38	82.25	40 40
15.14	17	90.56	38 10	15.93	52	98.36	32 11	15.93	20	4.44	32 24	15.14	22 10	76.18	40 24	15.74	40	82.61	43 23
15.59	18	90.79	39 36	15.93	53	98.53	37 07	14.12	21	4.52	34 05	15.00	11	76.29	44 51	14.60	41	82.83	42 52

25 prec. + 95 sec. + 1′ 19″.

5^h Area 49. $+29^{\circ}$

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.93	22 42	83.06	42 33	15.74	23 11	89.37	48 55	9.93*	23 40	95.64	44 55	15.93	24 26	5.60	40 41	14.60	22 13	76.88	53 44
15.36	42	83.09	48 17	15.09	11	89.38	40 18	15.93	41	95.93	42 53	12.96	27	5.85	46 55	15.93	15	77.34	51 00
14.47	42	83.10	43 29	12.96	11	89.41	43 04	15.74	41	95.98	48 06	15.93	29	6.20	47 22	13.68	15	77.35	53 47
14.69	43	83.26	45 12	14.34	12	89.56	42 44	15.45	42	96.15	49 30	15.36	30	6.51	48 30	15.00	16	77.37	54 11
15.93	43	83.33	49 57	15.59	12	89.60	49 08	15.05	43	96.23	47 59	15.93	30	6.57	48 17	15.93	20	78.25	58 01
15.00	44	83.42	42 09	14.69	13	89.74	49 58	14.82	43	96.32	42 10	14.69	30	6.59	49 06	15.36	22	78.79	52 32
15.14	44	83.50	46 19	15.14	13	89.76	48 30	15.09	43	96.36	40 11	15.74	32	7.04	48 01	15.93	22	78.81	56 03
15.27	45	83.64	47 25	15.59	14	89.99	41 14	15.93	45	96.82	40 31	15.59	33	7.13	47 10	15.00	23	78.89	51 13
14.47 :	45	83.65	44 31	13.68	16	90.41	42 21	14.47	47	97.12	42 18	15.05	33	7.27	49 19	15.23	23	78.90	59 15
13.30	46	83.83	45 19	13.04	16	90.53	44 00	15.93	50	97.72	41 54	15.23	34	7.30	40 01	14.69	23	78.93	55 30
14.78	46	83.85	43 01	15.93	17	90.62	43 38	15.59	51	97.99	45 22	15.50	35	7.69	44 34	15.59	23	79.05	59 55
14.69	46	83.88	48 42	15.45	17	90.66	44 14	15.74	52	98.23	41 34	12.96	36	7.79	43 19	11.95	24	79.14	53 34
14.38	46	83.97	42 34	13.68	18	90.93	49 20	15.23	54	98.61	46 52	15.00	39	8.53	49 28	12.75	24	79.18	51 44
14.16	47	84.08	44 39	15.45	18	90.96	46 51	15.27	56	99.24	45 17	15.45	40	8.59	45 48	10.64	24	79.25	56 39
13.25	47	84.20	42 34	13.72	18	90.99	43 42	15.50	57	99.35	40 06	15.27	44	9.46	45 10	15.00	26	79.61	52 00
15.27	47	84.26	45 26	15.74	19	91.08	42 33	15.74	57	99.45	40 44	15.50	45	9.82	42 53	12.35	26	79.73	54 15
15.59	48	84.31	42 24	15.14	19	91.12	47 14	13.94	58	99.61	44 53	15.05	45	9.86	45 02	15.93	27	79.82	54 30
15.14	48	84.46	42 38	15.27	19	91.13	46 47	12.96	58	99.65	49 05	15.93	46	9.93	45 02	15.27	27	79.96	50 33
13.17	52	85.23	43 20	15.93	20	91.31	45 47	14.25	59	99.72	49 29	13.59	47	10.13	42 47	15.74	28	80.09	50 35
15.00	52	85.33	48 13	12.55	20	91.31	41 48	14.82	59	99.80	42 54	15.74	48	10.49	45 36	14.91	30	80.39	55 16
14.38	53	85.45	42 40	13.81	21	91.46	42 34	15.59	59	99.81	43 55	15.05	49	10.68	45 14	15.74	30	80.42	51 32
13.72	53	85.46	49 58	13.81	21	91.49	48 08	15.14	24 1	0.17	41 35	15.27?	50	10.74	44 45	15.45	31	80.73	52 56
15.93	53	85.46	42 20	14.38	25	92.44	46 42	15.93	1	0.18	42 12	15.74	52	11.23	46 23	14.60	31	80.76	57 38
15.93	54	85.68	42 17	13.30	26	92.54	40 10	14.25	1	0.29	48 26	14.55	52	11.30	40 54	15.93	31	80.76	54 55
13.59	54	85.72	41 32	12.35	26	92.62	49 21	14.82	2	0.47	42 16	14.03	53	11.44	49 11	15.05	32	81.01	57 14
14.12	56	86.02	42 21	15.50	26	92.67	42 41	13.17	3	0.63	49 10	13.17	53	11.50	44 24	15.45	33	81.11	53 42
15.74	57	86.37	40 54	15.93	27	92.78	48 38	14.16	3	0.74	49 00	14.69	54	11.76	43 12	15.93	33	81.19	57 35
15.93	57	86.40	43 14	15.23	27	92.84	43 41	13.59	4	0.79	41 24	15.36	55	11.98	42 18	15.27	34	81.40	53 11
15.27	58	86.48	49 21	15.14	27	92.85	43 55	12.88	4	0.92	49 30	15.27	57	12.29	45 35	11.76	35	81.61	59 01
15.93	58	86.61	47 46	14.16	28	93.07	49 18	15.93	5	1.00	42 34	10.28	58	12.53	41 15	12.75	36	81.70	54 55
14.78	59	86.69	49 34	15.05	30	93.59	41 23	15.93	6	1.21	44 21	14.78	25 0	12.96	46 49	15.45	36	81.78	56 20
15.93	59	86.73	47 37	15.23	31	93.71	44 02	15.93	7	1.42	43 26	15.93	0	13.04	46 07	15.45	36	81.79	57 54
13.09	23 0	86.89	41 43	15.93	31	93.76	43 30	15.45	7	1.42	42 39	14.78	1	13.34	40 29	15.93	39	82.50	53 11
15.93	0	87.06	46 20	14.91	31	93.78	43 42	14.96	8	1.70	49 48	14.91	2	13.44	41 04	12.15	40	82.73	57 22
15.59	1	87.14	44 31	11.95	32	93.94	41 49	15.27	8	1.70	47 28	15.93	3	13.70	48 27	14.25	41	82.99	58 27
15.50	2	87.38	45 59	15.93	32	93.99	40 43	14.69	11	2.31	44 41	14.69	4	13.79	40 44	15.05	42	83.14	58 21
15.93	2	87.41	48 55	15.93	32	94.02	45 15	15.93	14	3.02	45 03	13.94	4	13.92	47 22	15.74	43	83.22	52 06
15.93	3	87.60	48 09	15.74	33	94.05	46 16	15.14	14	3.11	44 12	15.93	5	14.10	47 18	15.14	43	83.27	54 53
15.23	3	87.71	44 13	15.14	33	94.10	49 42	12.07	14	3.11	40 04	15.05	6	14.38	44 51	15.93	43	83.34	58 02
15.93	4	87.83	44 21	15.93	34	94.25	40 57	11.09	15	3.25	49 20	15.59	6	14.43	49 01	12.55	43	83.41	50 30
15.00	5	87.98	45 42	15.50	34	94.33	47 00	15.93	15	3.30	46 44	15.93	7	14.62	44 07	14.03	44	83.47	50 43
15.74	6	88.26	43 19	13.81	35	94.65	42 48	15.74	17	3.68	47 28	15.74	8	14.76	48 50	15.93	44	83.60	58 13
13.59	7	88.42	40 57	15.93	37	95.03	40 20	10.97	17	3.79	43 17	15.93	10	15.23	42 13	14.55	45	83.84	57 57
15.93	7	88.51	44 31	15.14	37	95.04	47 24	14.91	20	4.30	41 04	15.36	12	15.53	48 17	15.27	46	83.94	54 13
15.27	7	88.56	42 13	15.93	38	95.13	41 46	14.82	21	4.52	47 46	15.93	13	15.83	43 18	15.93	46	83.98	53 30
15.59	9	88.91	40 18	13.72	38	95.33	43 13	15.41	22	4.80	40 01	15.14	22 10	76.14	50 47	15.93	47	84.19	52 34
14.55	10	89.04	43 46	15.14	39	95.35	41 53	15.74	23	4.88	41 45	15.93	10	76.23	53 13	15.45	49	84.52	56 01
13.25	10	89.04	46 22	14.47	39	95.36	45 01	12.96	24	5.16	42 38	15.05	11	76.32	53 07	15.05	49	84.53	53 19
15.45	10	89.15	44 09	14.03	39	95.50	47 38	15.93	24	5.22	43 16	13.17	12	76.61	57 19	13.38	49	84.65	53 58
15.05	10	89.17	44 38	15.00	39	95.53	46 51	15.05	25	5.43	40 47	14.34	12	76.65	55 10	14.34	50	84.80	52 20

25 prec. + 96 sec. + 1′ 19″.

Area 49.

751—790				791—830				831—870				871—910				911—917			
Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.69	22 50	84.81	54 04	15.23	23 18	90.81	50 41	14.78	23 46	96.95	56 12	15.50	24 25	5.44	55 17	14.25	25 10	15.11	52 31
15.05	50	84.85	59 38	15.93	18	90.93	51 14	14.55	46	97.05	59 11	15.93	26	5.60	55 57	13.81	10	15.15	58 00
15.93	51	85.10	52 11	14.38	18	90.98	52 09	15.36	48	97.33	58 27	15.23	28	6.13	59 22	15.93	10	15.15	56 34
12.96	51	85.11	53 12	15.14	19	91.02	56 55	15.93	49	97.66	55 18	15.50	30	6.60	53 46	15.45	12	15.56	58 04
12.74	51	85.12	55 08	12.75	21	91.59	52 18	12.75	50	97.85	58 39	14.38	33	7.13	50 49	15.93	12	15 58	56 17
12.75	52	85.28	53 42	15.93	22	91.79	59 36	15.93	51	98.12	59 43	13.25	34	7.30	59 47	10.42	12	15.71	57 27
15.93	54	85.73	57 01	15.93	23	92.06	58 11	15.45	52	98.18	50 31	14.16	34	7.40	51 51	15.93	14	16.00	53 47
15.93	55	85.81	55 17	15.50	25	92.49	57 45	14.47	52	98.18	53 14	15.93	36	7.89	52 11				
15.93	55	85.84	54 19	15.93	26	92.54	53 21	14.47	54	98.70	51 02	14.69	37	8.00	59 56				
15.93	55	85.87	54 47	14.34	27	92.78	55 40	12.96	56	99.06	50 04	14.78	40	8.78	59 47				
15.93	55	85.96	52 11	15.93	28	93.00	57 16	15.00	24 0	0.01	50 31	15.74	40	8.78	54 29				
14.82	56	86.08	59 34	15.59	28	93.04	56 05	14.12	1	0.18	51 30	15.23	41	8.81	58 56				
15.93	56	86.08	57 05	15.83	28	93.06	50 10	10.69	4	0.96	53 47	15.59	41	8.88	56 27				
15.93	57	86.25	55 28	15.59	29	93.22	50 16	15.93	5	1.16	57 34	15.59	42	9.01	57 06				
15.45	57	86.35	57 29	15.27	29	93.37	50 39	15.27	6	1.32	54 21	14.55	42	9.08	51 49				
15.93	58	86.46	50 29	12.55	30	93.40	54 32	15.50	7	1.48	57 01	15.14	42	9.18	58 57				
15.14	58	86.66	57 29	15.93	31	93.71	52 00	15.23	7	1.48	55 41	15.45	44	9.48	51 12				
13.09	59	86.79	52 53	15.36	31	93.78	52 49	11.18	7	1.50	50 22	15.93	45	9.84	52 52				
15.93	59	86.87	57 59	15.50	31	93.81	56 38	15.14	7	1.54	51 51	11.40	46	9.98	57 52				
11.01	23 1	87.21	58 01	15.59	32	93.92	55 48	15.93	8	1.84	53 59	14.69	47	10.13	57 28				
15.23	4	87.91	51 27	14.25	33	94.21	52 14	15.23	9	1.91	54 17	11.76	47	10.21	59 01				
15.74	7	88.46	52 27	15.05	34	94.45	50 33	13.81	9	1.96	53 51	15.93	49	10.71	51 21				
14.55	8	88.63	50 53	15.93	36	94.71	58 06	15.74	9	1.97	57 17	14.82	51	11.09	57 06				
15.93	8	88.67	53 07	15.50	38	95.25	50 35	15.93	11	2.48	54 47	13.90	52	11.32	51 22				
15.74	8	88.75	52 28	15.27	38	95.33	50 51	14.91	13	2.77	54 13	14.03	53	11.39	51 28				
15.93	9	89.02	52 33	14.60	39	95.40	55 48	15.93	14	3.02	56 17	15.27	59	12.71	57 27				
15.50	10	89.17	50 29	15.93	39	95.47	51 39	14.69	14	3.09	53 23	13.47	59	12.87	52 22				
15.23	11	89.37	59 35	15.93	40	95.59	51 20	15.74	16	3.37	55 25	14.78	25 0	12.90	59 55				
12.75	11	89.45	58 48	15.50	40	95.70	51 38	15.59	16	3.41	55 19	15.93	1	13.17	56 31				
15.14	12	89.57	51 22	12.75	40	95.74	50 22	15.93	16	3.58	55 41	14.16	1	13.17	51 53				
15.93	12	89.69	55 23	14.47	40	95.75	55 32	15.23	18	3.86	50 10	13.68	1	13.29	54 14				
15.93	13	89.76	59 38	15.50	41	95.83	59 33	15.27	19	4.09	53 07	14.38	2	13.39	50 59				
15.74	15	90.15	53 05	15.50	41	95.96	51 00	15.93	19	4.09	52 12	12.75	3	13.75	52 37				
14.12	15	90.15	53 51	15.93	42	96.00	50 29	15.93	21	4.48	53 19	15.27	4	13.79	59 29				
15.93	15	90.28	52 50	15.50	42	96.10	58 54	15.93	21	4.58	53 35	15.14	5	14.07	51 40				
14.78	15	90.35	56 00	15.93	44	96.50	52 04	15.93	21	4.62	56 27	15.00	5	14.11	53 24				
15.59	16	90.40	57 47	15.50	45	96.72	50 33	15.23	22	4.82	56 48	11.21	6	14.22	53 11				
14.12	16	90.44	59 50	14.78	45	96.76	55 53	14.69	23	4.90	51 47	14.55	8	14.68	57 06				
12.96	16	90.54	51 53	14.55	46	96.87	55 41	15.14	23	4.95	57 31	15.59	8	14.74	58 54				
15.50	17	90.77	51 03	15.27	46	96.90	59 25	14.91	25	5.34	59 53	15.74	8	14.76	59 13				

25 prec. + 96 sec. + 1′ 19″.

Area 50. Centre for 1900: $6^h\ 24^m + 29^\circ\ 50'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.11	22 51	85.00	37 37	14.94	23 27	92.74	37 57	15.19	23 56	99.09	35 33	12.17	24 27	5.84	39 19	14.94	24 59	12.78	37 15
15.54	52	85.12	31 17	14.64	27	92.81	39 02	13.64	56	99.11	34 24	14.64	28	6.00	38 42	14.31	59	12.91	37 58
14.75	53	85.52	36 56	14.11	27	92.89	31 48	15.39	56	99.18	30 53	14.21	28	6.02	36 50	14.47	25 1	13.20	30 49
15.26	53	85.52	30 29	15.73	28	92.99	38 21	11.68	57	99.44	36 59	14.64	29	6.23	30 15	14.37	2	13.57	36 25
14.47	54	85.71	38 12	15.19	28	93.02	30 34	14.11	58	99.52	39 43	15.73	30	6.47	32 41	15.19	4	13.83	36 44
15.73	55	85.91	36 15	15.73	28	93.13	35 17	15.26	58	99.62	39 58	15.73	30	6.56	33 27	14.94	4	13.84	33 37
14.47	56	86.14	33 55	13.29	29	93.22	37 32	15.26	59	99.87	34 52	15.39	30	6.61	32 50	15.54	4	13.88	36 30
14.64	57	86.29	38 52	14.64	29	93.24	36 11	15.73	24 0	99.95	36 36	15.73	31	6.65	32 03	13.29	5	14.08	32 45
14.37	57	86.34	36 57	12.63	29	93.30	38 47	15.73	0	0.01	31 54	15.39	31	6.71	31 48	14.21	5	14.09	30 33
14.87	58	86.41	31 51	15.26	29	93.35	36 16	15.73	1	0.14	32 27	14.06	31	6.72	38 39	15.19	5	14.14	32 42
15.73	23 0	86.88	37 53	14.11	30	93.43	31 15	15.73	1	0.15	34 36	14.11	31	6.75	38 46	14.94	5	14.21	36 34
15.26	1	87.15	38 25	15.26	30	93.44	33 16	15.39	2	0.35	38 32	14.87	33	7.08	30 38	15.06	6	14.25	37 47
7.85	2	87.30	32 40	14.21	30	93.44	38 40	14.94	2	0.38	34 30	15.54	33	7.12	39 24	14.87	6	14.42	36 54
12.00	3	87.55	38 08	13.60	31	93.65	34 17	15.73	2	0.50	36 07	12.17	33	7.19	31 52	13.73	8	14.78	30 50
13.87	3	87.60	32 03	13.29	31	93.67	39 15	15.73	3	0.64	34 10	15.39	33	7.27	38 39	14.58	9	14.94	32 56
14.06	3	87.63	31 20	13.60	31	93.74	30 16	15.54	3	0.65	34 28	15.06	34	7.42	36 49	11.08	10	15.12	37 32
14.11	5	88.02	37 22	14.11	32	93.90	31 56	15.39	3	0.73	31 19	15.26	34	7.45	36 26	10.29	10	15.13	33 15
13.73	5	88.09	37 49	12.82	33	94.15	38 16	15.19	4	0.93	34 15	15.73	36	7.86	31 18	14.21	10	15.30	32 56
15.54	6	88.23	38 30	15.73	33	94.20	31 10	15.73	5	1.03	36 33	12.27	36	7.89	38 26	14.21	11	15.38	35 07
14.64	6	88.26	38 56	15.73	34	94.40	35 06	15.73	5	1.09	30 08	15.73	37	8.02	31 18	14.94	11	15.39	33 22
15.73	7	88.49	39 52	14.58	34	94.41	39 26	15.73	6	1.35	32 50	15.73	38	8.31	30 35	15.73	11	15.50	32 19
15.73	7	88.58	39 58	14.47	34	94.41	34 34	14.21	7	1.53	38 05	15.73	39	8.56	38 48	15.73	11	15.54	38 14
15.73	7	88.58	36 25	15.73	36	94.87	35 51	15.06	7	1.53	30 16	15.54	44	9.51	39 44	15.73	12	15.69	38 31
15.19	7	88.59	30 19	12.63	37	95.03	37 26	13.96	7	1.53	35 55	14.21?	44	9.63	31 36	13.96	12	15.70	37 12
14.87	9	88.94	35 39	14.37	38	95.18	36 05	15.73	8	1.68	38 38	13.64	45	9.84	32 08	15.54	13	15.81	31 38
15.73	9	88.99	33 24	14.94	38	95.23	37 35	14.94	8	1.81	30 41	15.54	46	9.96	31 20	15.73	14	16.11	36 03
14.87	10	89.20	36 29	14.31	38	95.29	35 40	14.58	10	2.08	38 10	13.38	46	9.98	32 16	15.73	14	16.12	33 07
13.09	10	89.24	34 24	14.37	38	95.30	32 13	15.73	10	2.16	36 15	14.64	46	10.02	33 27	15.06	15	16.39	30 15
15.73	11	89.31	31 11	13.87	39	95.35	34 34	15.39	11	2.37	37 59	14.37	47	10.12	32 26	15.19	15	16.40	31 57
13.29	11	89.38	33 25	14.94	39	95.40	36 09	12.89	11	2.48	31 07	15.73	47	10.23	32 07	13.42	16	16.63	32 23
14.31	11	89.40	38 56	15.39	42	96.09	30 18	14.94	14	2.98	31 01	12.82	48	10.33	35 28	14.94	17	16.66	30 19
13.17	12	89.47	36 27	15.73	42	96.13	32 19	14.94	15	3.19	32 40	15.26	49	10.67	31 26	15.19	17	16.79	36 15
15.73	12	89.58	33 09	9.22*	44	96.47	36 06	15.73	15	3.28	34 15	14.94	50	10.85	32 11	15.06	18	16.97	31 00
14.11	14	90.04	37 42	13.42	45	96.69	34 07	15.19	15	3.33	36 19	14.64	50	10.85	35 51	13.09	18	16.98	39 18
15.19	15	90.23	37 46	14.37	46	96.86	32 19	14.87	16	3.55	31 04	15.73	50	10.87	37 44	15.73	18	16.99	34 20
14.75	15	90.29	36 49	11.38	46	96.87	37 22	15.54	17	3.70	39 37	15.73	50	10.88	38 17	14.58	18	16.99	35 17
14.75	17	90.58	33 35	15.73	46	97.02	34 06	15.73	17	3.77	37 00	15.73	50	10.98	38 27	15.39	20	17.34	37 08
15.73	18	90.88	33 07	14.21	47	97.18	32 18	15.54	19	4.13	37 14	15.73	50	10.98	39 44	14.64	20	17.46	39 59
14.11	19	91.13	33 54	15.00	48	97.40	39 56	13.87	19	4.21	31 55	14.31	51	11.18	37 31	15.73	21	17.69	32 51
14.87	19	91.17	37 44	13.64	49	97.66	35 45	15.73	19	4.23	34 50	14.75	51	11.19	34 24	15.73	23	17.99	32 49
14.94	20	91.30	36 02	12.34	50	97.79	32 45	15.73	20	4.37	30 53	14.47	52	11.40	31 49	14.94	23	18.05	34 57
15.73	21	91.56	32 37	15.54	50	97.89	31 47	15.73	20	4.46	39 03	15.73	53	11.56	39 52	14.37	24	18.19	35 10
14.11	23	91.85	39 52	15.54	50	97.90	30 07	14.94	21	4.54	36 02	15.26	53	11.61	38 13	13.21	24	18.28	35 18
13.42	23	91.95	31 56	13.64	51	97.97	34 05	13.87	22	4.81	36 33	15.54	54	11.84	37 55	13.73	25	18.39	37 08
13.21	24	92.08	39 54	15.73	51	98.02	37 47	15.54	24	5.14	30 37	14.47	55	12.01	31 47	12.52	26	18.60	34 34
13.21	24	92.19	37 45	15.54	52	98.15	30 49	15.19?	24	5.25	30 55	14.06	56	12.18	33 13	14.31	26	18.69	35 27
14.94	24	92.25	34 48	14.37	52	98.30	32 37	9.18	25	5.42	39 33	15.73	57	12.30	37 34	15.26	26	18.81	38 24
15.73	26	92.51	37 25	15.73	53	98.46	32 20	14.58	25	5.48	37 48	15.73	57	12.41	34 20	15.06	27	18.88	37 12
15.73	26	92.54	31 40	11.38	54	98.59	37 40	15.26	25	5.52	38 31	12.70	58	12.54	37 28	15.73	28	19.18	34 28
15.54	26	92.58	36 41	15.73	55	99.00	37 06	15.54	26	5.72	35 26	14.21	58	12.67	35 24	15.73	29	19.33	34 39

25 prec. + 96 sec. — 0′ 53″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.82	25 29	19.39	36 34	12.17	22 54	85.67	46 47	15.54	23 26	92.54	42 37	14.06	23 57	99.41	48 39	14.94	24 34	7.35	44 31
14.58	30	19.59	30 52	14.47	54	85.76	43 23	15.73	26	92.58	45 24	15.73	57	99.42	46 44	14.31	35	7.54	47 42
13.96	31	19.81	36 32	14.06	55	85.84	49 01	15.39	26	92.68	47 31	15.26	58	99.46	49 38	14.37	35	7.57	48 04
14.31	32	19.90	33 39	15.73	56	86.10	45 55	15.73	27	92.79	41 44	11.53	59	99.88	48 37	14.47	38	8.36	42 42
13.87	34	20.37	37 53	11.68	56	86.10	44 46	15.26	28	93.10	49 56	15.54	24 0	99.92	41 13	13.17	39	8.43	41 51
15.26	34	20.49	30 42	9.07	58	86.44	41 51	15.73	28	93.14	43 35	15.54	0	99.95	42 32	11.12	42	9.04	41 15
14.87	34	20.50	38 34	15.73	59	86.66	48 52	12.17	29	93.19	44 38	14.87	1	0.18	43 08	14.87	42	9.08	40 48
15.54	36	20.78	39 10	12.52	59	86.73	44 20	14.87	30	93.44	42 50	14.31	2	0.35	41 26	15.39	44	9.45	43 44
14.31	36	20.79	35 27	15.54	59	86.77	44 42	14.87	31	93.63	49 20	14.87	2	0.51	42 38	13.51	44	9.48	44 16
14.87	37	21.04	30 48	15.39	23 0	86.87	40 15	15.19	32	93.87	42 09	14.94	3	0.72	42 16	13.09	45	9.72	49 03
12.97	37	21.14	39 48	14.64	3	87.68	49 50	12.97	32	93.89	41 26	15.73	4	0.77	49 36	15.54	45	9.78	49 27
13.60	38	21.27	35 58	14.11	3	87.69	46 22	14.47	33	94.07	46 41	15.73	5	1.05	49 50	13.21	45	9.78	45 55
15.73	38	21.27	35 13	15.73	4	87.86	40 37	15.00	33	94.07	49 40	15.54	5	1.12	43 58	14.31	46	9.99	49 21
14.64	38	21.36	38 03	15.54	5	88.11	45 14	14.94	34	94.27	47 58	15.54	6	1.22	42 35	13.42	46	10.06	48 17
12.00	38	21.38	33 33	15.73	6	88.22	44 52	13.73	34	94.27	45 52	14.94	8	1.67	45 18	14.64	47	10.22	42 28
15.39	38	21.39	31 21	15.26	6	88.31	47 52	12.70	35	94.56	41 53	15.39	8	1.84	45 12	14.75	47	10.27	41 15
15.73	39	21.46	36 09	15.73	9	88.85	46 08	15.73	35	94.60	46 14	12.34	9	1.91	46 25	15.73	50	10.74	42 18
14.47	39	21.57	35 55	14.21	10	89.11	41 56	13.64	36	94.87	48 47	13.73	9	2.00	49 56	15.73	51	10.98	42 27
14.21	41	21.87	32 53	14.37	11	89.40	41 39	15.54	37	94.91	41 06	13.01	9	2.04	41 32	15.54	51	11.10	46 13
14.47	41	21.89	31 57	15.73	11	89.46	41 48	14.47	37	95.04	41 15	11.38	10	2.13	44 19	14.47	53	11.40	47 56
14.75	41	21.98	31 18	15.73	12	89.49	40 07	13.09	37	95.10	49 40	15.73	12	2.58	42 19	15.73	53	11.59	44 40
12.17	42	22.17	32 09	13.29	12	89.51	47 59	13.73	39	95.37	42 48	14.11	14	2.94	41 56	11.21	54	11.77	45 55
14.58	43	22.29	37 31	14.31	12	89.62	45 45	15.26	39	95.53	48 06	15.73	14	3.04	48 20	14.87	55	11.88	48 06
13.87	43	22.34	30 53	15.39	12	89.69	47 00	14.37	40	95.64	47 10	14.75	14	3.11	44 03	13.73	56	12.07	40 42
14.64	43	22.40	31 16	14.47	13	89.81	46 40	14.64	41	95.92	40 43	12.52	16	3.39	48 17	14.37	56	12.16	44 05
15.19	43	22.42	34 14	14.31	16	90.37	48 58	14.75	41	95.96	45 13	14.31	16	3.48	49 11	15.39	56	12.23	41 09
15.19	43	22.43	32 42	15.73	16	90.49	40 36	15.73	42	96.00	46 13	15.73	16	3.53	41 23	15.54	57	12.29	43 24
15.73	43	22.47	33 20	13.60	17	90.63	48 28	15.73	42	96.11	43 37	11.11	17	3.71	41 39	13.51	57	12.43	43 07
14.94	45	22.77	38 48	14.06	17	90.73	49 23	14.87	42	96.17	40 42	15.73	17	3.71	45 32	15.73	58	12.50	49 08
13.05	46	22.97	39 59	15.26	17	90.75	49 02	14.64	44	96.46	43 10	14.87	17	3.74	41 03	14.47	59	12.81	40 22
11.84	46	23.00	35 30	14.31	18	90.81	48 06	15.73	45	96.75	46 03	14.21	17	3.76	48 33	11.84	25 0	13.12	48 16
14.11	47	23.21	38 26	15.73	18	90.88	43 28	15.54	45	96.80	45 25	15.39	19	4.19	45 03	12.63 :	1	13.19	41 43
12.70	48	23.44	32 11	15.06	18	90.88	44 19	15.19	46	97.05	41 44	15.73	20	4.31	46 34	14.87	1	13.22	46 26
14.64	48	23.46	32 05	14.64	19	91.08	42 12	15.39	47	97.15	47 00	14.11	20	4.44	41 53	12.82	1	13.32	43 20
15.73	49	23.74	36 37	14.21	19	91.16	46 50	14.47	47	97.16	40 32	15.54	21	4.53	48 11	15.06	2	13.40	46 57
15.54	50	23.86	39 17	14.87	20	91.40	46 14	15.06	47	97.26	40 34	13.73	23	4.93	45 27	15.54	2	13.52	45 42
15.73	50	23.98	34 01	15.39	21	91.48	40 55	13.96	48	97.32	42 18	13.73	23	5.08	45 13	15.73	2	13.53	46 40
15.73	51	24.15	33 43	15.26	22	91.77	49 41	15.73	50	97.79	48 45	14.47	24	5.12	42 30	15.06	3	13.57	41 33
13.60	51	24.21	32 57	15.19	22	91.86	48 43	14.64	50	97.84	49 34	15.06	25	5.43	41 07	15.54	3	13.58	43 53
15.54	52	24.27	31 08	14.87	23	91.88	40 32	15.19	50	97.93	46 51	11.18	25	5.50	43 37	15.54	4	13.80	48 23
15.73	52	24.39	30 56	15.73	23	91.97	41 17	15.26	50	97.93	40 41	14.58	26	5.60	40 15	15.19	4	13.82	45 39
14.75	53	24.57	34 53	13.73	23	92.00	49 26	14.64	52	98.23	41 29	13.09	27	5.91	42 53	15.73	4	13.88	42 05
15.54	54	24.69	31 03	14.75?	24	92.14	47 41	13.42	52	98.26	45 08	14.87	28	6.10	41 48	13.17	5	14.12	43 20
14.94	54	24.73	33 44	15.73	24	92.15	42 49	15.73	53	98.43	49 00	14.64	28	6.17	46 38	12.17	5	14.19	42 58
15.73	54	24.78	30 41	15.54	25	92.30	42 34	15.73	54	98.65	49 16	15.73	28	6.18	49 19	13.73	6	14.29	41 34
13.87	54	24.88	31 16	15.26	25	92.38	44 38	15.73	54	98.66	42 23	14.58	30	6.50	41 22	14.87	7	14.44	41 29
13.73	22 51	85.12	41 20	15.73	25	92.46	40 35	14.87	54	98.69	41 27	14.87	30	6.53	41 34	15.39	7	14.45	45 51
15.73	52	85.18	49 01	15.73	25	92.47	49 15	13.38	54	98.76	46 39	13.64	30	6.60	47 43	15.06	7	14.48	41 57
14.37	53	85.42	48 37	14.69	25	92.47	40 12	14.87	55	98.95	43 15	15.73	31	6.73	43 48	15.19	7	14.55	45 14
15.00	54	85.60	40 16	10.42	26	92.52	42 07	15.73	56	99.15	43 02	15.54	33	7.12	40 28	14.94	8	14.68	43 03

25 prec. + 96 sec. — 0′ 53″.

Area 50.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.73	25 10	15.14	43 01	15.73	25 43	22.33	43 42	14.87	23 9	88.87	54 45	15.39	23 36	94.80	58 21	14.94	24 6	1.20	56 00
14.58	10	15.17	46 29	14.94	43	22.38	47 20	15.73	10	89.07	52 59	15.19	36	94.92	59 55	15.73	6	1.26	56 26
15.73	10	15.19	48 24	13.42	43	22.40	40 38	15.54	10	89.26	50 28	14.11	37	94.93	57 20	14.94	6	1.40	57 30
11.29	11	15.42	49 58	14.47	44	22.47	42 19	13.73	10	89.28	53 55	10.88	37	94.98	50 01	15.54	7	1.58	59 39
12.82	11	15.46	46 15	14.94	44	22.57	48 50	15.73	11	89.35	53 23	15.26	39	95.46	59 32	15.54	9	2.03	56 27
14.64	12	15.62	47 30	15.39	44	22.68	40 25	14.31	11	89.36	53 01	15.54	39	95.49	51 14	15.73	10	2.10	53 46
14.64	13	15.91	43 38	14.94	45	22.82	43 43	15.73	13	89.77	57 34	15.73	39	95.50	56 59	15.73	10	2.14	55 59
14.31	14	15.95	48 05	14.58	45	22.85	45 29	15.73	14	90.04	58 59	15.73	40	95.56	54 13	11.84	10	2.25	58 16
14.75	14	15.97	43 13	15.54	46	23.07	41 55	15.39	15	90.19	56 51	14.87	40	95.57	56 20	14.11	11	2.30	58 50
15.26	14	16.00	46 01	13.51	47	23.27	47 26	14.94	15	90.19	52 36	14.21	40	95.67	53 24	15.54	12	2.60	51 12
14.06	14	16.01	43 26	15.19	47	23.29	46 03	14.37	15	90.35	52 33	13.96	40	95.75	57 53	15.26	12	2.71	55 33
15.73	14	16.11	40 46	13.64	47	23.30	49 30	15.39	15	90.35	50 20	15.73	40	95.77	59 19	15.73	13	2.92	53 52
13.38	16	16.51	42 04	15.39	49	23.65	40 50	15.26	16	90.42	50 38	11.84	41	95.87	53 47	15.54	14	2.93	58 13
13.29	16	16.53	44 55	14.75	50	23.80	48 45	13.17	16	90.49	57 39	15.06	41	95.93	59 12	13.87	14	2.98	51 13
15.19	16	16.54	44 32	15.39	50	23.83	47 02	12.74	17	90.72	59 35	14.47	42	96.00	57 42	15.73	14	3.14	56 01
15.73	18	16.84	40 16	13.42	50	23.87	46 07	14.75	18	90.90	50 18	15.73	43	96.23	56 22	13.01	15	3.33	52 42
13.51	18	17.03	49 20	14.37	50	23.97	43 16	13.64	18	90.94	55 16	13.96	44	96.47	56 43	14.94	15	3.35	52 59
14.11	19	17.08	40 24	15.06	51	24.06	49 39	13.82	19	91.16	53 39	15.54	44	96.63	51 58	14.94	17	3.60	57 01
15.73	22	17.85	47 12	13.42	51	24.06	43 01	14.06	19	91.20	55 35	14.87	45	96.80	52 28	14.11	17	3.70	51 26
15.39	23	18.05	49 34	15.73	51	24.16	41 41	14.31	19	91.20	53 26	14.37	46	96.94	51 31	15.26	19	4.04	54 51
12.67	23	18.08	49 45	13.64	51	24.17	41 18	15.73	20	91.25	52 53	15.19	46	97.06	56 45	15.39	19	4.18	51 52
15.73	24	18.34	42 18	12.63	52	24.27	45 55	14.06	20	91.44	57 57	15.73	49	97.58	53 55	12.34	20	4.33	53 32
15.73	25	18.50	44 03	14.06	53	24.58	49 22	14.64	21	91.58	53 12	14.11	50	97.74	53 52	15.73	21	4.47	55 29
15.73	25	18.54	46 07	12.89	54	24.64	48 52	14.94	21	91.60	50 12	13.29	50	97.77	54 36	15.73	21	4.50	56 29
12.82	26	18.71	43 52	15.54	54	24.75	41 42	15.26	23	91.94	53 39	15.39	50	97.90	53 19	15.19?	21	4.63	51 28
14.94	28	19.19	46 16	14.94	54	24.76	42 24	15.26	23	91.97	52 16	13.17	52	98.26	57 49	8.09*	22	4.83	53 46
14.94	29	19.25	49 54	14.87	54	24.80	48 33	15.06	24	92.19	53 27	14.47	52	98.34	58 30	13.87	25	5.40	53 24
14.31	29	19.37	40 54	12.89	22 51	85.05	53 00	12.17	24	92.27	53 00	14.94	53	98.45	57 36	15.54	27	5.76	59 54
13.82	30	19.48	41 05	14.87	51	85.06	51 44	14.21	24	92.27	58 28	15.19	53	98.53	54 11	14.87	27	5.87	54 17
14.21	30	19.61	48 40	14.75	52	85.31	51 47	14.94	25	92.35	52 02	14.75	54	98.59	59 04	15.06	29	6.32	54 10
14.87	31	19.68	47 34	15.26	53	85.41	59 14	14.37	25	92.44	53 35	14.21	54	98.70	51 59	15.73	30	6.45	59 45
14.47	32	19.89	41 46	15.26	53	85.44	53 00	15.19	25	92.48	53 27	14.31	55	98.88	51 58	14.47	30	6.60	53 52
14.75	32	19.90	47 10	15.73	53	85.52	53 52	15.73	26	92.61	54 51	13.60	55	99.01	55 31	15.54	32	7.03	53 07
14.94	33	20.18	46 52	14.94	54	85.78	51 53	15.54	26	92.71	54 17	13.82	56	99.16	57 08	15.73	32	7.04	53 42
14.64	33	20.26	44 24	15.54	55	85.83	59 35	15.73	27	92.75	53 47	14.31	57	99.36	59 56	15.54	33	7.10	57 23
14.64	34	20.49	47 41	13.73	55	85.87	59 20	15.73	28	92.96	50 02	14.87	58	99.48	59 34	15.54	33	7.17	52 43
15.39	36	20.74	46 42	15.54	55	85.97	53 51	14.75	28	92.99	50 47	15.06	58	99.55	55 02	15.39	34	7.48	57 27
15.54	36	20.91	42 15	15.73	56	86.21	50 52	15.13	28	93.08	59 40	14.37	24 0	99.95	54 24	15.73	35	7.50	58 00
14.94	36	20.93	47 32	15.73	58	86.55	52 57	15.19	29	93.38	58 48	14.94	0	99.95	56 13	13.13	35	7.66	59 42
15.26	37	21.06	40 16	14.94	23 0	87.07	53 34	14.69	29	93.38	50 23	15.73	0	99.97	55 31	15.73	36	7.72	54 03
14.58	37	21.09	44 28	14.31	1	87.19	58 47	15.19	30	93.48	51 58	15.19	0	0.00	52 02	15.26	36	7.86	55 43
13.96	38	21.19	45 45	15.73	2	87.49	55 05	15.06	30	93.61	54 21	14.94	0	0.02	57 31	15.73	36	7.89	59 14
14.94	38	21.19	46 52	14.11	2	87.53	58 35	13.17	31	93.73	51 57	14.11	2	0.33	52 24	15.73	37	8.06	53 16
15.73	39	21.48	48 35	13.87	3	87.59	51 45	15.73	31	93.75	54 15	15.06	2	0.53	53 17	14.75	37	8.09	54 57
13.87	39	21.56	40 45	15.54	3	87.64	58 22	15.73	31	93.76	59 19	14.75	3	0.55	58 37	14.21	37	8.09	55 52
14.21	40	21.69	40 35	14.21	3	87.74	57 00	12.00	32	94.02	54 14	13.87	3	0.55	58 49	13.60	38	8.32	54 51
11.38	41	21.88	46 34	15.73	6	88.19	59 16	15.54	33	94.09	50 04	15.73	4	0.84	51 32	15.73	39	8.38	51 39
14.94	41	21.94	46 50	14.75	6	88.19	54 11	14.75	33	94.20	54 11	13.60	4	0.90	55 39	15.19	40	8.56	55 32
12.67	42	22.16	40 29	14.47	7	88.49	50 22	15.73	34	94.31	52 27	13.51	4	0.92	53 54	15.73	40	8.71	51 25
14.94	43	22.25	42 15	15.73	8	88.79	54 05	12.00	35	94.48	52 50	15.26	5	1.16	55 44	15.73	41	8.80	51 16

25 prec. + 96 sec. — 0′ 53″.

6^h

Area 50.

+ 29°, + 30°

751—800				801—850				851—900				901—950				951—1000			
Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$	Int. magn.	a	x	$y+50'$ / $y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.73	24 41	8.81	50 31	14.64	25 6	14.40	54 04	13.01	25 44	22.57	56 59	15.73	23 14	90.01	8 46	15.73	23 47	97.29	2 42
15.54	41	8.84	59 48	13.38	7	14.51	53 00	14.75	44	22.61	50 04	15.54	14	90.12	7 34	14.75	48	97.35	6 49
14.37	41	8.89	51 32	15.39	7	14.55	51 44	14.37	46	22.96	59 12	15.73	14	90.14	6 30	14.58	48	97.41	3 08
15.39	42	9.02	51 32	14.94	7	14.60	56 31	15.00	46	22.98	59 57	15.73	15	90.20	6 17	14.06	50	97.80	4 36
15.73	42	9.12	51 22	14.75	10	15.20	55 03	15.73	47	23.14	52 44	12.63	15	90.26	6 07	14.75	50	97.94	4 52
15.26	43	9.32	52 53	15.19	10	15.20	51 25	15.73	48	23.41	50 19	12.70	16	90.50	9 39	13.51	51	97.99	5 51
15.73	44	9.47	59 58	14.75	10	15.28	54 35	15.73	49	23.67	53 25	14.06	16	90.51	4 02	15.19	51	98.08	4 06
15.19	44	9.49	51 47	15.54	12	15.60	57 58	13.01	52	24.18	51 52	13.64	17	90.63	8 42	14.64	53	98.39	3 08
15.73	44	9.52	52 51	14.37	12	15.65	59 12	15.39	52	24.27	58 57	15.39	17	90.69	1 12	14.75	53	98.39	6 45
14.75	44	9.62	57 58	15.73	13	15.85	56 01	14.64	52	24.37	58 00	14.87	17	90.70	8 22	11.38	53	98.42	9 27
15.54	45	9.72	57 59	13.64	13	15.90	55 53	15.54	53	24.43	59 19	11.68	18	90.90	1 43	14.31	53	98.45	4 42
14.47	45	9.82	52 14	13.96	13	15.90	54 27	15.73	53	24.44	55 41	15.19	20	91.30	6 47	15.06	53	98.46	6 25
10.01*	46	10.02	51 55	12.70	16	16.50	59 00	15.73	54	24.75	59 17	14.64	20	91.33	9 37	14.47	53	98.46	1 37
14.11	47	10.17	54 48	14.75	17	16.64	55 39	15.73	55	25.00	57 02	12.63	20	91.36	5 28	15.39	54	98.61	1 37
14.31	48	10.41	51 34	14.94	17	16.69	51 04	15.73	22 51	85.12	6 11	15.73	21	91.53	0 48	15.54	54	98.65	3 30
15.73	48	10.48	50 45	15.73	18	16.81	52 12	15.39	52	85.27	2 30	15.39	21	91.53	3 02	15.39	55	98.92	0 28
14.87	48	10.51	54 01	15.73	18	16.99	51 17	15.73	52	85.32	0 40	15.73	22	91.70	1 32	14.21	55	98.94	5 54
12.63	49	10.60	58 17	14.75	19	17.16	57 30	10.49	54	85.66	0 02	15.73	22	91.72	4 40	15.73	56	99.04	6 25
14.87	49	10.62	51 12	14.94	20	17.33	55 44	15.19?	56	86.24	4 12	13.60	23	91.90	6 17	14.87	56	99.04	0 39
14.37	49	10.70	51 31	13.51	20	17.34	55 19	15.73	57	86.29	6 26	15.06	23	92.01	5 48	14.64	57	99.37	5 31
14.94	50	10.74	52 31	15.06	20	17.40	54 32	12.89	57	86.42	5 36	14.58	24	92.10	8 34	14.87	57	99.44	9 26
15.73	50	10.76	58 40	12.89	21	17.45	57 44	15.73	58	86.56	1 48	15.73	24	92.13	1 17	15.54	58	99.48	8 01
15.06	50	10.79	54 20	12.17	21	17.50	52 07	15.73	59	86.73	0 10	15.73	24	92.18	9 44	15.39	58	99.56	4 12
15.54	51	11.01	55 37	14.31	22	17.69	50 55	13.73	59	86.81	3 13	15.73	24	92.29	6 41	15.73	58	99.64	3 28
14.75	51	11.02	51 24	14.94	22	17.76	54 14	13.87	23 0	87.00	7 14	15.73	25	92.50	8 59	15.73	59	99.76	6 44
14.94	51	11.08	58 20	15.73	24	18.28	50 46	14.31	0	87.07	1 19	14.75	28	93.11	8 54	15.26	24 0	99.98	2 48
15.73	52	11.16	54 41	13.60	24	18.32	59 56	15.26	1	87.19	1 20	15.54	28	93.12	4 28	15.73	0	0.05	8 56
14.64	52	11.26	57 00	14.75	25	18.36	55 02	15.19	1	87.28	6 50	15.39	29	93.22	5 02	15.73	1	0.14	1 54
14.75	53	11.51	52 19	15.73	25	18.45	52 05	13.64	2	87.54	9 34	13.96	29	93.34	6 25	15.73	2	0.33	2 49
14.21	54	11.61	55 32	15.06	26	18.52	57 02	15.73	3	87.68	0 11	9.84	31	93.66	3 47	15.06	3	0.57	9 38
14.64	54	11.71	52 40	12.17	27	18.84	53 17	15.26	4	87.91	1 13	15.73	31	93.75	4 55	15.73	5	1.10	8 03
13.64	54	11.78	55 09	15.54	28	19.02	53 39	12.52	4	87.99	9 51	15.73	33	94.13	7 20	15.19	6	1.29	1 19
15.73	55	11.93	50 05	11.29	28	19.02	59 46	14.87	5	88.06	4 10	13.96	33	94.19	2 07	14.11	7	1.49	5 07
14.21	57	12.28	54 34	15.73	28	19.08	51 11	13.87	5	88.14	4 38	14.75	34	94.28	3 23	15.73	7	1.61	4 07
14.87	57	12.36	54 27	14.87	28	19.13	55 50	12.00	5	88.18	9 25	15.19	34	94.30	4 34	14.87	8	1.70	1 17
14.94	57	12.37	52 42	14.75	28	19.18	55 33	15.54	7	88.51	7 52	14.64	37	95.01	4 09	15.06	8	1.79	0 45
14.87	57	12.37	56 30	15.73	30	19.53	58 59	12.89	7	88.51	6 43	15.54	38	95.14	2 56	14.64	8	1.79	9 04
14.37	57	12.42	58 09	13.09	30	19.58	58 26	14.31	7	88.64	2 48	15.73	38	95.18	1 29	14.75	10	2.09	3 18
14.31	58	12.51	51 26	15.06	32	19.83	50 38	15.73	8	88.70	8 26	14.47	39	95.51	2 46	13.09	10	2.16	1 57
14.87	58	12.56	58 49	14.87	32	19.92	58 58	12.00	8	88.81	7 25	15.73	39	95.52	6 42	14.94	11	2.37	1 21
14.87	58	12.57	50 45	15.73	32	19.96	52 20	15.73	9	89.01	7 50	14.75	40	95.63	1 29	15.26	12	2.67	2 25
14.47	58	12.62	54 34	15.73	34	20.47	57 27	14.47	10	89.17	3 23	15.73	41	95.82	6 13	12.63	13	2.77	6 09
15.73	25 0	12.92	55 52	11.53	34	20.48	52 13	13.87	10	89.27	0 45	13.21	41	95.96	0 48	15.06	13	2.84	0 18
14.21	0	13.07	56 56	13.29	36	20.87	55 39	15.73	11	89.33	7 16	15.19	42	95.99	4 29	14.75	14	2.98	8 04
14.94	1	13.18	52 35	15.54	39	21.36	55 16	15.73	11	89.50	9 18	15.06	42	96.11	8 50	15.73	15	3.18	7 53
15.73	3	13.61	55 50	14.06	39	21.38	56 41	13.09	12	89.58	7 19	15.39	43	96.29	6 46	14.94	15	3.23	7 32
12.63	4	13.78	58 40	13.96	39	21.42	55 48	14.37	12	89.58	0 41	14.94	46	96.90	7 32	14.47	16	3.39	5 58
12.82	5	14.00	59 27	14.58	40	21.71	54 19	15.26	12	89.70	4 19	15.73	46	96.98	8 00	13.51	16	3.49	4 05
13.21	6	14.26	58 57	14.87	41	21.89	59 29	15.73	13	89.75	3 17	12.34	46	96.99	7 24	14.31	17	3.69	5 44
15.73	6	14.39	51 46	14.87	42	22.16	51 41	15.54	13	89.92	2 17	14.75	47	97.13	5 11	15.19	19	4.05	1 57

25 prec. + 96 sec. — 0′ 53″.

1001—1030				1031—1060				1061—1090				1091—1120				1121—1136			
Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.94	24 19	4.18	9 59	13.96	24 38	8.31	8 34	12.89	24 58	12.56	9 17	12.52	25 14	15.90	5 13	15.39	25 43	22.30	2 18
14.87	20	4.34	9 07	15.26	38	8.32	4 54	14.75	58	12.57	3 45	14.87	14	15.95	9 24	14.64	48	23.37	2 15
15.73	20	4.35	9 34	14.94	39	8.54	6 31	15.73	58	12.60	5 34	15.73	15	16.15	0 55	13.55	49	23.50	0 30
15.73	21	4.45	2 23	13.51	41	8.92	0 04	13.73	58	12.63	4 22	13.09	18	16.79	6 34	12.00	49	23.52	3 06
15.54	21	4.46	8 44	15.73	42	9.04	0 12	14.83	58	12.62	0 14	12.63	18	16.87	1 41	15 19	50	23.75	7 02
14.11	21	4.62	0 38	13.42	43	9.31	1 57	15.39	58	12.66	5 03	14.87	20	17.38	8 27	12 34	50	23.89	9 06
14.87	23	4.95	8 58	12.89	44	9.48	4 37	15.06	59	12.79	5 37	14.87	22	17.65	7 34	15 54	51	23.95	0 16
12.45	23	4.97	1 18	15.73	44	9.56	6 31	15.73	25 0	12.97	3 19	15.06	22	17.72	1 25	15.19	51	24.11	0 00
12.82	23	4.98	4 21	15.73	45	9.64	3 33	15.19	0	13.03	2 08	14.94	22	17.79	9 28	15.26	52	24.13	1 21
15.73	24	5.12	3 17	15.26	45	9.67	6 00	15.39	1	13.20	4 27	14.94	23	17.99	8 17	11.53	52	24.21	8 29
15.73	24	5.21	1 29	15.73	45	9.74	6 45	15.73	2	13.34	8 51	15.19	27	18.80	4 21	13.29	52	24.29	6 31
14.75	25	5.36	3 49	14.94	47	10.17	4 07	13.64	2	13.42	2 20	14.87	29	19.28	6 05	12.70	53	24.42	5 37
15.73	25	5.49	2 26	15.39	49	10.54	0 44	15.73	3	13.65	3 41	14.75	29	19.31	4 51	13.42	53	24.44	6 23
14.64	26	5.59	2 12	15.39	49	10.57	9 37	15.73	3	13.72	4 43	13.96	29	19.32	3 52	13.73	53	24.49	2 48
14.94	26	5.71	9 23	15.73	49	10.59	1 10	15.54	4	13.85	4 50	15.39	30	19.40	5 44	12.89	53	24.51	6 01
15.73	27	5.79	5 54	15.73	49	10.62	9 04	14.11	5	14.12	0 39	15.73	30	19.43	7 38	15.26	55	24.97	3 53
15.54	28	6.06	6 36	14.94	50	10.75	2 33	12.34	6	14.21	4 42	14.64	31	19.74	2 40				
15.39	28	6.11	0 31	14.21	50	10.86	3 14	15.19	6	14.35	2 56	14.11	32	19.84	5 55				
11.84	28	6.15	9 51	14.94	51	11.03	4 18	14.21	6	14.39	9 25	13.87	33	20.06	5 30				
14.94	30	6.41	1 09	13.87	51	11.07	6 47	15.19	7	14.42	4 27	15.54	34	20.30	6 43				
15.54	31	6.62	0 28	13.96	51	11.10	2 47	15.73	7	14.52	4 14	12.00	35	20.50	7 08				
14.11	32	6.92	2 35	14.94	51	11.11	1 18	15.54	7	14.52	1 17	13.82	35	20.60	1 18				
15.19	32	6.99	4 04	12.89	52	11.20	0 58	14.58	8	14.66	3 45	13.60	36	20.81	0 32				
15.54	34	7.41	4 18	14.64	52	11.22	6 50	14.31	9	14.86	2 42	13.38	38	21.09	4 52				
13.87	34	7.42	5 54	15.73	53	11.43	2 40	15.73	10	15.16	3 27	15.73	38	21.21	6 47				
13.01	35	7.49	8 32	14.94	54	11.59	7 49	13.64	10	15.20	7 30	12.82	39	21.35	9 06				
15.73	35	7.59	8 18	14.11	54	11.72	0 05	15.73	11	15.26	5 07	14.94	40	21.66	3 13				
14.58	36	7.81	8 23	15.73	55	11.91	3 18	15.19	11	15.36	3 58	15.73	42	22.01	4 24				
15.39	37	7.99	2 16	13.51	57	12.40	7 49	14.64	12	15.56	1 00	15.73	42	22.04	3 16				
13.82	38	8.16	9 16	13.64	58	12.53	0 07	14.87	13	15.74	6 00	15.73	43	22.20	5 49				

25 prec. + 96 sec. — 0′ 55″.

7h Area 51. Centre for 1900: 7h 24m + 30° 0′. + 29°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.71	22 9	75.85	30 50	14.89	22 34	81.20	32 14	12.53	22 51	85.08	37 01	14.12	23 17	90.69	31 01	13.75	23 35	94.59	35 53
15.18	13	76.67	39 04	14.78	35	81.49	30 41	14.05	56	86.08	37 06	13.68	19	91.14	30 29	15.71	37	94.96	37 44
14.20	25	79.32	31 26	15.18	35	81.59	34 19	15.71	23 0	87.00	33 17	15.52	20	91.36	31 28	13.57	39	95.38	31 45
15.25	25	79.36	39 58	14.32	37	81.90	34 42	15.52	2	87.35	38 57	14.78	21	91.43	34 58	15.37	43	96.20	36 38
13.46	26	79.59	39 14	15.52	39	82.40	38 16	15.37?	5	88.03	34 27	13.39	24	92.06	38 03	14.20	43	96.39	31 32
14.12	27	79.76	35 43	12.87	40	82.58	37 13	15.71	10	89.13	39 06	13.57	26	92.52	34 57	15.71	44	96.44	30 30
14.68	29	80.21	34 18	14.45	40	82.62	38 55	12.53	10	89.23	36 40	14.45	26	92.62	30 51	15.52	47	97.23	34 03
15.71	31	80.70	34 51	13.57	42	82.96	34 10	14.41	12	89.54	35 01	15.71	28	92.98	30 29	15.37?	49	97.60	31 57
15.25	31	80.75	38 46	15.06	42	82.99	31 20	15.25	14	89.89	34 14	14.95	34	94.30	39 38	14.05	50	97.75	30 40
15.52	33	80.99	32 48	12.70	46	84.00	30 12	15.52	16	90.32	30 16	13.39	34	94.45	32 54	14.28	50	97.80	39 56

25 prec. + 95 sec. — 2′ 58″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.71	23 52	98.18	31 11	14.01	25 50	23.82	35 50	14.64	22 36	81.84	43 39	14.41	24 49	10.59	40 24	14.64	26 22	30.75	42 35
15.37	54	98.64	30 43	14.54	50	23.92	35 14	15.18	38	82.13	44 07	15.71	52	11.36	40 20	14.95	23	30.97	48 40
13.50	54	98.65	35 33	15.37	55	24.93	36 33	14.05	39	82.39	46 34	15.71	53	11.52	49 42	15.37	33	33.11	49 02
15.71	59	99.74	39 23	10.85	56	25.18	38 12	15.71	43	83.37	43 36	15.06	54	11.61	43 39	11.54	38	34.41	49 12
12.19	24 3	0.66	37 03	15.71	56	25.27	34 18	14.89	47	84.17	42 53	13.57	56	12.08	44 59	13.39	40	34.70	44 53
14.45	4	0.76	39 09	14.95	59	25.84	33 22	14.05	47	84.25	42 23	14.45	56	12.21	42 16	14.95	41	34.89	40 15
10.06	5	1.14	35 33	14.78	26 6	27.29	30 42	14.54	58	86.44	45 52	14.89	56	12.23	49 50	13.57	41	34.90	48 42
15.06	7	1.58	38 06	13.68	7	27.57	38 49	14.64	59	86.66	49 43	14.01	25 0	13.02	42 46	14.64	22 8	75.68	53 00
14.78	11	2.40	36 37	15.06	7	27.60	39 35	15.52	23 5	88.01	43 33	11.70	2	13.49	45 12	10.80?	12	76.61	50 20
14.45	14	3.05	33 07	14.41	9	27.99	30 42	13.64	8	88.66	53 05	11.10	2	13.52	43 42	14.95	14	76.99	58 30
14.64	15	3.24	35 00	14.68	9	28.04	32 33	15.52	9	88.88	41 39	14.41	4	13.78	42 26	13.01	15	77.27	59 32
14.32	16	3.38	35 43	11.54	12	28.59	32 34	14.64	18	90.94	44 25	11.54	4	13.81	41 13	15.71	17	77.59	53 17
12.80	16	3.39	36 06	15.06	14	29.05	35 21	15.71	20	91.38	49 24	10.26	6	14.21	48 59	15.71	18	77.99	57 49
15.06	16	3.49	33 38	14.78	15	29.35	38 02	15.52	21	91.59	40 50	15.71	6	14.42	44 02	12.97	21	78.59	53 04
14.45	21	4.65	38 50	14.41	19	30.27	32 44	14.95	25	92.38	44 43	14.68	7	14.54	47 17	15.71	27	79.95	50 54
13.29	25	5.51	37 55	15.18	19	30.31	30 46	14.12	25	92.40	44 24	15.71	8	14.70	43 56	11.70	29	80.35	53 55
15.25	26	5.62	34 37	14.32	20	30.48	32 18	15.31	25	92.42	40 04	15.71	10	15.08	49 54	13.50	30	80.41	52 56
15.37	27	5.77	36 56	15.18	21	30.71	39 03	15.71	30	93.55	44 34	15.18	10	15.15	48 58	15.71	31	80.64	50 19
12.36	28	6.12	37 02	15.18	23	31.02	34 17	13.39	30	93.59	45 44	15.52	10	15.17	41 18	14.45	32	81.04	58 24
15.37	32	6.96	38 35	15.37	25	31.52	31 28	14.05	31	93.80	43 45	14.84	10	15.25	49 58	15.71	34	81.43	52 04
14.41	33	7.11	37 06	13.68	26	31.67	30 55	13.61	35	94.68	49 44	14.78	11	15.36	49 12	14.59	36	81.74	59 30
13.86	33	7.21	34 39	15.06	28	32.11	36 23	15.06?	37	95.07	42 27	13.57	12	15.60	40 46	14.95	37	82.06	51 03
13.22	35	7.56	37 47	14.95	29	32.38	37 57	15.78	38	95.29	46 33	15.71	16	16.54	48 43	15.71	38	82.21	57 29
15.52	36	7.94	33 37	11.86	30	32.55	31 39	15.71	42	96.15	47 44	14.32	19	17.06	40 39	15.25	40	82.65	53 43
15.71	40	8.65	33 09	14.95	35	33.62	39 18	13.93	42	96.16	45 04	14.20	19	17.09	49 04	13.32	40	82.77	54 09
15.06	46	9.90	37 45	15.18	36	33.81	34 25	15.71	44	96.49	42 17	15.71	21	17.55	41 18	15.06	45	83.69	55 01
14.24	48	10.41	30 19	14.78	38	34.39	32 24	10.09	46	97.06	47 26	13.93	21	17.59	41 01	14.24	46	83.87	51 51
14.64	54	11.66	37 45	14.45	38	34.41	31 05	14.84	53	98.46	40 03	13.68	23	18.06	46 09	14.95	48	84.46	55 26
14.24	55	11.92	35 53	12.02	40	34.69	38 43	12.36	54	98.74	43 49	15.71	24	18.16	41 16	14.20	54	85.79	51 55
12.02	55	12.05	35 58	14.16	22 6	75.22	40 26	13.29	56	99.22	41 33	14.24	27	18.89	45 15	13.22	56	86.17	58 22
15.71	57	12.48	39 48	15.52	8	75.63	40 14	15.71?	58	99.46	46 23	15.71	34	20.46	41 29	15.71	56	86.22	55 15
14.24	25 0	13.09	33 18	15.52	14	76.96	49 40	15.18	58	99.51	46 31	15.37	36	20.89	42 56	15.12	56	86.23	50 08
15.06	2	13.52	33 51	14.95	14	76.99	45 56	14.68	58	99.66	47 23	15.52	41	21.94	41 44	15.37	59	86.68	50 59
15.52	8	14.88	30 42	15.71	15	77.20	45 59	15.71	24 1	0.31	43 53	15.71	51	24.04	48 15	15.71	59	86.88	58 29
15.37	9	15.01	36 52	15.06	17	77.57	43 26	12.12	7	1.46	49 38	15.71	52	24.23	42 51	12.70	23 1	87.27	51 12
15.71	11	15.52	33 11	14.01	18	77.89	43 43	15.37	7	1.52	45 37	15.71	54	24.64	47 26	14.24	2	87.36	50 22
14.89	15	16.23	30 55	14.89	22	78.76	47 49	15.06	12	2.54	46 54	15.71	55	24.96	45 29	13.75	5	88.03	50 41
15.18	17	16.65	33 09	14.68	24	79.07	47 43	15.71	14	3.03	44 22	14.68	56	25.15	48 02	15.71	7	88.49	53 42
12.36	17	16.82	30 56	12.70	24	79.08	49 32	15.71	16	3.44	47 35	15.06	56	25.24	45 38	14.68	11	89.34	56 12
15.71	21	17.58	33 08	14.95	24	79.12	43 26	13.22	20	4.37	41 55	14.78	57	25.46	41 56	14.45	12	89.52	56 40
15.71	25	18.38	33 54	14.32	24	79.12	48 11	15.71	21	4.57	46 58	15.71	26 0	26.03	49 18	13.79	14	89.93	50 24
15.06	31	19.86	34 54	15.71	24	79.15	47 28	15.25	23	5.04	46 07	15.71	3	26.60	40 40	15.37	15	90.32	50 24
12.70	33	20.20	35 11	15.52	25	79.35	49 50	14.64	30	6.53	46 10	14.20	5	27.06	48 23	15.37	16	90.52	50 27
15.71	34	20.47	34 49	12.02	26	79.55	41 42	14.68	30	6.57	47 47	14.32	5	27.23	41 29	14.32	16	90.55	51 54
14.64	34	20.55	34 20	13.46	29	80.19	45 26	14.78	32	7.05	42 04	13.93	7	27.66	44 37	15.71	18	90.90	52 05
15.52	37	21.19	35 43	12.36	29	80.32	46 08	14.54	33	7.13	44 50	15.25	11	28.43	46 41	12.87	22	91.70	54 08
15.71	38	21.41	38 33	12.70	29	80.34	42 59	12.60	34	7.36	40 32	12.70	16	29.55	48 33	14.05	25	92.46	51 00
15.71	45	22.87	34 11	14.64	32	80.97	47 26	13.97	37	7.94	40 22	11.70	19	30.17	45 28	15.37	25	92.48	53 48
15.71	46	23.06	32 43	13.04	33	81.18	45 35	15.71	40	8.71	46 02	12.53	21	30.56	40 42	15.71	27	92.81	53 52
14.20	48	23.55	32 13	12.36	34	81.37	41 30	15.71	49	10.59	46 31	15.06	22	30.75	41 58	15.31	30	93.52	59 42

25 prec. + 95 sec. — 3′ 1″.

301—350				351—400				401—450				451—500				501—550			
Int. Magn.	α	x	y+60′	Int. Magn.	α	x	y+60′ / y+0′	Int. Magn.	α	x	y+0′	Int. Magn.	α	x	y+0′	Int. Magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
9.65*	23 32	93.89	57 53	14.78	25 44	22.49	54 31	14.41	23 4	87.96	9 48	15.37	24 52	11.20	9 40	15.52	26 36	33.66	3 20
15.37	37	95.11	54 58	15.37	45	22.85	57 50	14.32	6	88.23	7 28	13.75	55	11.98	2 07	15.18	36	33.70	8 16
11.10	47	97.23	50 20	14.05	47	23.12	56 39	15.52	6	88.24	1 09	14.41	56	12.16	8 49	15.37	36	33.78	1 46
15.71	48	97.41	52 28	14.24	47	23.26	54 46	15.71	6	88.40	8 00	12.53	25 0	13.03	4 04	15.71	37	34.05	5 44
14.95	49	97.64	54 30	14.45	51	24.11	58 59	12.87	11	89.41	4 31	14.64	4	13.87	8 55	15.71	40	34.63	2 43
15.71	52	98.18	51 24	13.32	53	24.39	53 23	11.54	12	89.69	4 41	14.64	6	14.24	0 30	14.78	41	34.75	2 32
13.46	54	98.60	55 49	12.02	26 1	26.22	57 33	13.15	23	91.97	2 52	14.45	6	14.25	6 25	14.78	41	34.93	2 15
14.95	56	99.09	52 42	14.78	3	26.57	52 24	15.25	27	92.81	0 31	15.71	10	15.18	2 48	13.57	42	34.97	1 17
14.54	58	99.47	50 04	15.25	7	27.58	51 12	15.37	29	93.19	5 56	15.25	15	16.31	6 30	15.71	22 7	75.62	17 56
14.95	24 2	0.34	57 54	11.04	9	27.94	57 01	15.71	29	93.25	0 06	15.25	15	16.32	7 35	15.71	8	75.86	15 53
15.37	3	0.66	56 38	15.18	9	27.98	52 12	12.53	30	93.58	3 30	14.89	17	16.60	1 45	15.71	9	75.96	18 02
15.71	3	0.67	50 35	15.52	15	29.20	52 24	15.52	32	93.91	5 28	14.45	19	17.00	2 30	14.20	17	77.83	18 10
14.41	5	1.13	54 49	15.25	26	31.52	54 31	11.54	33	94.16	8 35	15.71	19	17.04	0 51	15.52	23	78.98	10 06
14.64	6	1.20	56 55	15.71	27	31.81	54 32	15.71	34	94.47	2 21	15.18	20	17.39	0 31	13.75	24	79.19	11 14
13.39	12	2.56	57 11	14.45	31	32.65	54 15	15.37	42	96.16	9 59	15.71	22	17.75	6 58	13.75	27	79.90	14 26
12.53	13	2.83	57 30	15.37	40	34.56	51 12	13.22	45	96.76	4 58	13.86	24	18.09	6 57	13.50	29	80.34	15 26
14.68	13	2.85	52 09	15.06	22 5	75.21	3 20	15.71	48	97.31	9 04	13.50	26	18.70	5 25	14.78	29	80.45	17 03
15.71	13	2.92	56 00	13.86	8	75.75	9 16	14.78	50	97.78	8 43	15.37	27	18.74	9 59	15.71	39	82.44	10 20
11.38	15	3.17	57 20	14.45	8	75.77	7 51	13.68	50	97.88	1 45	13.15	31	19.75	8 04	15.25	41	82.87	19 59
15.71	19	4.06	58 29	14.89	9	75.92	6 05	15.06	55	98.89	1 38	15.71	32	19.88	2 49	15.71	41	82.99	11 40
13.64	20	4.34	58 11	15.71	11	76.40	2 38	15.71	57	99.29	8 51	15.18	33	20.21	5 37	14.05	42	83.12	18 24
15.25	24	5.25	55 13	15.18	17	77.80	4 08	15.71	58	99.67	1 09	14.95	35	20.45	0 41	14.24	42	83.16	18 41
11.08	32	7.01	52 33	14.32	19	78.25	4 06	14.89	59	99.69	7 18	15.52	36	20.72	6 37	14.89	44	83.65	18 03
13.75	34	7.35	53 40	15.71	20	78.42	6 54	14.32	24 0	99.95	4 40	15.25	38	21.22	5 46	12.19	46	83.94	18 28
15.71	34	7.38	54 39	14.68	24	79.28	1 35	15.71	2	0.33	1 02	15.52	38	21.26	8 24	15.71	46	84.04	10 44
15.37	36	7.90	56 37	14.95	24	79.34	5 49	13.50	2	0.41	8 27	15.52	42	22.12	7 26	15.18	47	84.16	12 38
14.41	37	8.04	56 30	14.45	25	79.36	3 28	14.89	2	0.44	9 15	15.18	44	22.52	2 55	14.95	48	84.44	14 49
14.36	42	9.14	50 12	15.37	30	80.49	5 06	12.70	2	0.52	6 00	15.71	45	22.61	5 22	14.95	52	85.26	19 08
15.71	48	10.31	52 35	14.41	33	81.25	1 19	15.52	3	0.56	9 55	15.71	50	23.89	6 34	15.52	52	85.40	11 37
12.53	50	10.92	50 54	14.05	35	81.70	4 29	14.78	6	1.24	4 29	15.52	52	24.13	3 06	15.71	54	85.83	11 13
15.71	52	11.20	51 40	15.06	36	81.73	8 18	15.52	7	1.59	0 13	14.89	53	24.41	5 33	15.18	57	86.32	11 45
14.54	56	12.07	58 11	15.52	36	81.85	6 37	13.93	9	1.96	3 48	15.52	55	24.85	8 58	14.95	58	86.69	11 16
13.86	25 1	13.20	57 52	15.52	37	81.98	0 23	15.18	11	2.35	0 55	15.37	57	25.23	9 41	14.32	23 0	87.10	19 29
13.39	7	14.48	53 28	14.89	37	82.00	7 53	12.97	13	2.78	4 55	13.75	58	25.50	5 36	14.95	3	87.71	10 47
15.18	9	14.95	50 53	15.25	39	82.46	0 31	14.78	14	3.00	4 30	15.25	59	25.69	9 22	11.86	3	87.74	13 52
13.75	13	15.83	57 39	11.04	39	82.53	3 01	14.78	15	3.29	8 56	11.54	26 4	26.80	1 16	14.95?	4	87.79	13 58
13.82	13	15.86	51 16	15.18	39	82.55	8 53	13.39	16	3.39	3 41	14.45	5	26.95	8 46	14.01	11	89.34	11 35
15.52	14	16.12	53 33	14.41	40	82.63	6 18	10.05	21	4.64	2 16	15.52	6	27.29	6 16	12.19	13	89.93	18 49
14.68	16	16.58	50 20	15.52	43	83.39	2 56	13.93	22	4.66	7 36	14.78	8	27.75	1 13	15.71	16	90.53	16 09
14.89	19	17.05	53 53	15.52	46	84.04	1 49	14.12	24	5.08	4 30	15.37	13	28.70	8 40	15.71	20	91.33	11 54
14.24	21	17.61	58 48	14.64	46	84.05	4 03	14.09	25	5.33	0 02	13.04	17	29.58	5 15	15.52	21	91.61	18 13
15.18	23	18.06	58 28	15.06	52	85.38	1 30	13.68	26	5.73	5 47	10.75	20	30.23	3 45	14.12	25	92.36	13 08
13.64	24	18.10	58 47	13.57	53	85.54	4 57	12.87	32	6.87	3 08	14.64	20	30.31	3 35	14.32	25	92.43	13 19
14.54	28	19.00	53 07	12.53	55	86.04	3 58	15.18	40	8.57	1 39	15.71	22	30.71	7 17	13.86	26	92.70	12 47
15.71	29	19.34	58 53	14.32	56	86.25	8 44	15.31	41	8.80	3 33	15.71	23	30.99	4 52	15.52	26	92.76	10 35
13.75	31	19.66	52 17	15.71	57	86.27	1 32	15.18	42	9.01	7 50	14.32	24	31.26	6 35	15.71	30	93.60	18 19
15.71	39	21.50	51 07	14.64	23 1	87.15	6 05	14.45	48	10.42	1 06	14.32	25	31.34	9 05	11.86	38	95.22	18 48
15.71	40	21.60	51 32	14.32	1	87.29	3 01	14.78	48	10.46	4 24	15.37	27	31.88	9 41	12.19	42	96.01	11 35
15.06	41	21.96	53 29	15.71	2	87.42	7 36	13.46	50	10.75	6 28	14.89	33	33.19	1 21	15.71	44	96.59	15 00
14.89	42	22.20	51 23	14.68	4	87.92	6 34	14.09	51	11.00	9 37	14.24	34	33.41	3 10	14.54	46	96.92	16 08

25 prec. + 95 sec. — 3′ 0″.

551—600				601—650				651—700				701—750				751—795			
Int. Magn.	α	x	y+o′	Int. Magn.	α	x	y+o′	Int. Magn.	α	x	y+o	Int. Magn.	α	x	y+o′	Int. Magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.06?	23 47	97.17	19 16	14.95	25 30	19.52	16 28	15.37	22 15	77.27	24 09	13.46	24 12	2.59	23 44	14.54	25 30	19.39	21 01
15.18	55	98.87	17 04	15.52	31	19.60	11 11	14.41	15	77.37	20 54	15.71	13	2.72	23 02	15.25	30	19.46	20 00
15.52	55	98.89	11 58	15.06	31	19.74	17 19	15.37	16	77.52	28 36	14.68	13	2.88	20 40	14.95	31	19.54	24 42
14.64	58	99.49	13 23	14.32	32	19.93	10 02	15.52	17	77.72	23 22	12.87	14	2.92	25 04	14.78	31	19.72	22 54
14.95	58	99.50	18 33	15.71	33	20.18	13 35	11.70	19	78.25	28 55	15.25	18	3.84	24 18	11.38	34	20.29	25 54
15.71	58	99.57	17 00	14.89	41	21.82	10 42	12.80	21	78.68	20 13	12.36	18	3.92	29 53	14.95	36	20.63	23 13
15.71	24 1	0.18	10 56	15.71	41	21.85	18 33	15.71	25	79.47	24 08	13.32	19	4.00	22 21	14.78	38	21.15	24 20
14.89	2	0.33	19 14	13.57	43	22.14	13 25	14.78	34	81.40	23 03	14.78	21	4.52	21 53	14.54	39	21.25	22 33
15.18	2	0.54	10 39	15.71	47	23.10	18 12	14.32	34	81.54	25 04	15.71	22	4.77	20 38	15.18	42	21.92	21 44
15.18	3	0.74	10 28	14.64	47	23.14	17 03	14.68	34	81.57	26 55	15.71	23	4.94	25 11	14.41	45	22.55	20 25
13.22	5	1.04	10 59	15.71	48	23.41	17 38	14.24	35	81.59	29 19	14.78	23	5.06	23 32	15.71	47	23.09	26 51
14.32	6	1.39	11 58	14.84	49	23.54	10 00	15.18	38	82.38	24 55	15.71	25	5.46	27 11	14.68	47	23.12	27 10
14.24	7	1.46	18 30	13.46	51	23.90	13 43	15.06	39	82.54	20 44	14.95	27	5.92	24 11	13.11	48	23.34	20 32
13.29	7	1.55	16 44	15.71	52	24.08	10 02	14.64	42	83.26	26 17	15.52	34	7.30	20 01	15.25	55	24.73	21 01
13.29	8	1.75	18 34	14.64	53	24.35	16 05	15.18	43	83.48	23 13	15.71	34	7.35	29 54	15.71	56	24.95	29 51
15.71	9	1.95	13 31	15.71	56	25.02	14 02	14.68	45	83.85	26 41	15.25	34	7.44	22 13	15.71	56	25.12	29 30
15.37	18	3.95	16 52	14.64	56	25.08	12 12	14.24	47	84.36	22 35	15.25	36	7.84	26 31	11.86	57	25.31	27 41
10.33	19	4.18	15 29	14.78	56	25.13	16 45	12.53	48	84.58	29 42	14.64	37	7.89	21 59	14.68	59	25.65	25 23
15.71	19	4.20	18 16	15.52	26 2	26.26	15 05	11.38	52	85.29	26 34	15.06	38	8.17	23 35	12.36	26 4	26.68	24 39
14.05	22	4.80	17 25	14.64	2	26.26	19 42	13.86	52	85.34	23 21	14.95	38	8.22	28 17	15.52	4	26.71	29 00
15.06	25	5.35	18 22	15.71	3	26.58	12 34	15.71	58	86.53	28 08	15.71	38	8.25	24 36	15.71	5	26.98	27 10
15.71	28	6.07	13 35	9.55*	4	26.78	11 06	14.68	23 0	86.96	26 22	14.45	42	9.15	22 27	15.71	7	27.34	21 06
14.54	32	6.91	14 25	15.25	6	27.10	17 37	14.41	7	88.51	21 09	14.54	42	9.15	26 37	14.05	8	27.68	27 54
11.00	32	7.00	17 36	13.29	6	27.32	15 37	14.24	9	89.06	28 19	13.68	43	9.24	28 38	13.50	10	28.05	23 46
11.54	32	7.01	13 08	15.71	10	28.08	14 30	15.71	10	89.32	26 27	13.93	43	9.33	22 35	13.64	11	28.19	22 07
15.52	35	7.46	10 46	10.77	12	28.51	11 51	15.71	12	89.73	28 10	13.93	49	10.63	21 47	14.78	11	28.22	28 45
14.54	35	7.46	17 09	14.12	16	29.40	10 38	13.68	13	89.91	25 10	14.01	50	10.70	29 48	15.71	15	29.05	23 42
14.78	35	7.54	10 32	11.02	17	29.53	18 00	15.71	14	90.13	29 28	13.93	50	10.77	21 34	14.12	15	29.18	27 57
14.45	36	7.74	18 34	14.68	18	29.70	15 50	14.45	14	90.13	22 42	15.18	55	11.89	25 55	13.57	15	29.18	21 17
14.64	36	7.77	16 05	14.41	19	29.95	13 04	15.18	15	90.25	26 21	14.12	57	12.35	28 40	13.50	18	29.74	27 55
15.06	36	7.88	16 20	15.37	20	30.17	15 05	11.70	18	90.88	27 27	15.52	58	12.42	28 08	15.71	20	30.13	24 41
13.18	38	8.20	10 08	13.93	20	30.25	13 35	14.64	18	90.90	21 42	13.22	58	12.56	29 51	14.64	20	30.14	21 33
15.71	42	9.01	15 01	14.01	21	30.44	13 38	14.95	24	92.14	20 34	15.06	25 0	12.97	20 41	14.54	20	30.28	23 53
14.64	45	9.77	18 02	13.64	21	30.55	10 28	14.68	26	92.70	24 36	14.32	1	13.15	24 37	12.80	25	31.28	26 58
15.71	47	10.24	16 19	14.95	25	31.24	17 09	15.06	27	92.90	25 29	13.32	2	13.39	27 39	15.71	26	31.38	23 20
15.25	49	10.54	18 49	14.89	25	31.28	18 45	15.71	32	93.98	27 02	14.78	3	13.49	25 13	14.89	30	32.28	25 01
15.71	58	12.53	15 20	14.24	26	31.62	14 40	15.52	38	95.18	23 13	13.29	3	13.56	21 32	14.05	31	32.59	22 27
15.25	25 1	13.28	17 19	15.06	28	31.89	18 00	11.86	38	95.26	22 19	12.53	4	13.77	21 16	14.12	32	32.85	20 25
13.64	2	13.31	14 28	15.06	30	32.29	11 07	13.82	38	95.27	22 01	13.15	6	14.13	29 41	12.87	33	32.97	28 44
11.54	2	13.36	13 03	15.37	30	32.45	15 15	13.75	42	96.03	20 00	15.71	6	14.14	21 10	15.52	34	33.19	24 22
15.71	7	14.46	16 00	15.52	33	33.06	16 12	12.53	42	96.22	28 35	13.75	6	14.21	23 19	15.71	34	33.20	20 49
14.01	10	15.22	11 47	15.52	36	33.61	13 16	15.71	43	96.30	21 24	15.37	7	14.44	21 43	15.71	36	33.72	22 20
14.89	13	15.81	13 54	14.68	37	33.89	17 48	13.86	45	96.82	28 03	14.68	14	16.04	27 29	15.71	38	33.98	20 46
14.01	15	16.12	14 26	15.52	37	34.00	12 23	15.71	47	97.11	26 15	12.70	17	16.54	21 33	15.52	38	34.08	22 49
13.93	18	16.79	17 54	15.71	38	34.07	12 10	14.89	48	97.32	29 02	14.68	21	17.54	29 20	15.52?	42	34.83	24 21
14.68	24	18.05	18 37	15.25	41	34.70	16 25	15.06	48	97.44	25 22	11.54	23	17.88	26 13				
14.95	26	18.47	18 03	15.71	22 6	75.51	22 48	14.54	49	97.66	22 45	14.78	24	18.03	25 32				
10.43	27	18.74	14 52	15.37	7	75.60	23 36	13.93	54	98.75	26 47	15.37	25	18.33	29 17				
12.46	29	19.30	10 06	14.32	9	76.06	25 33	14.78	55	98.88	23 55	14.68	26	18.49	26 01				
14.95	30	19.33	15 46	15.71	10	76.26	28 00	14.45	24 4	0.79	24 27	15.06	30	19.30	22 55				

25 prec. + 95 sec. — 3′ 1″.

Area 52. Centre for 1900: $8^h\ 26^m + 30° 0'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
14.06	23 24	66.05	33 14	15.01	24 35	81.56	35 00	13.97	26 14	3.02	32 12	14.53	27 52	24.45	34 33	16.28	25 15	90.29	47 34
14.06	28	66.95	37 18	15.83	40	82.52	36 13	14.53	14	3.12	38 07	15.67	53	24.47	30 24	14.91	21	91.51	49 59
15.41	32	67.82	34 27	15.26	42	83.12	37 25	15.94	15	3.26	38 50	14.43	55	24.94	36 34	13.97	28	93.16	47 37
15.01	36	68.79	35 20	16.28	43	83.18	30 48	15.52	18	3.98	37 21	15.57	56	25.20	35 38	15.67	29	93.25	40 51
13.79	38	69.15	39 56	14.91	43	83.18	30 24	16.28	20	4.29	37 23	15.41	56	25.29	38 59	15.16	29	93.37	47 56
14.11	39	69.41	33 05	13.32	44	83.42	34 07	15.94	26	5.70	34 44	14.91	57	25.38	36 36	15.57	33	94.09	41 00
15.26	41	69.76	32 10	15.57	45	83.78	33 38	16.09	28	6.12	39 16	16.28	57	25.46	38 19	14.43	37	95.02	41 51
10.86	43	70.16	38 35	15.46	45	83.79	39 43	16.28	33	7.23	36 12	14.34	58	25.67	38 08	10.98	40	95.60	47 54
15.41	49	71.57	30 32	16.09	50	84.70	36 39	16.09	34	7.36	31 34	15.57	59	25.84	39 14	11.33	41	95.88	43 15
15.16	49	71.62	38 09	14.20	25 2	87.40	39 20	14.29	34	7.38	36 02	15.67	23 27	66.88	42 43	16.09	51	98.05	47 33
15.67	51	71.88	39 38	14.81	3	87.60	30 05	16.28	34	7.46	37 50	16.09	28	67.11	47 28	14.57	52	98.18	45 27
16.28	51	72.03	30 23	16.28	4	87.78	39 29	16.28	35	7.52	30 01	15.31	29	67.12	48 57	14.29	55	98.91	48 29
16.28	52	72.15	30 15	16.28	5	87.99	31 03	13.93	35	7.52	39 51	14.53	33	68.00	41 44	15.41	58	99.61	47 58
16.28	53	72.29	37 03	15.26	5	88.08	32 02	15.01	36	7.73	36 14	15.16	34	68.27	47 58	14.20	26 4	0.94	47 31
14.43	53	72.35	36 51	15.94	6	88.15	36 34	13.53	37	8.10	38 22	15.57	34	68.37	45 38	8.94	11	2.32	48 18
16.28	54	72.67	35 23	16.28	6	88.36	34 51	16.09	38	8.27	35 13	14.67	35	68.49	45 10	14.29	11	2.43	45 42
16.09	55	72.92	36 36	16.09	9	88.90	30 08	13.84	39	8.45	32 21	15.06	37	68.93	48 36	15.41	17	3.64	40 38
15.57	56	72.95	37 39	15.78	15	90.22	32 41	13.11	40	8.79	38 23	15.52	39	69.44	45 21	15.52	19	4.16	45 21
14.77	56	72.95	39 10	15.41	22	91.77	35 48	15.31	46	9.95	32 22	11.60	42	69.93	48 47	15.67	23	5.01	47 12
15.26	57	73.17	33 31	14.06	24	92.06	30 34	16.09	48	10.42	38 30	14.43	42	69.98	47 56	13.11	25	5.52	43 06
15.06	57	73.25	34 19	14.57	27	92.77	30 51	14.67	48	10.43	31 14	13.97	42	70.04	44 31	15.57	28	6.15	42 11
13.53	57	73.29	33 00	15.67	27	92.89	35 08	15.31	49	10.57	31 05	16.09	45	70.77	44 03	15.57	29	6.22	46 44
13.84	58	73.37	39 08	15.78	32	93.88	37 03	15.78	56	12.25	30 29	15.16	46	70.98	48 27	15.31	32	6.84	46 28
15.57	24 0	74.01	30 16	16.09	35	94.49	36 37	15.83	57	12.39	34 43	15.57	47	71.17	41 50	15.67	34	7.27	48 03
16.28	2	74.44	37 31	16.28	36	94.68	32 24	15.83	58	12.57	38 57	13.62	48	71.41	48 40	11.27	35	7.66	46 24
13.75	3	74.65	35 51	14.67	39	95.38	32 23	16.28	58	12.72	33 23	15.78	51	71.96	43 59	15.16	40	8.78	45 00
15.78	4	74.84	30 39	14.53	39	95.52	34 56	16.28	59	12.85	33 13	14.67	51	72.04	41 01	15.31	41	8.80	42 50
16.28	5	74.94	30 52	12.35	40	95.56	32 11	15.94	59	12.92	36 06	14.57	52	72.26	44 07	16.28	41	8.83	40 43
15.06	5	75.04	36 04	16.28	41	95.84	34 36	15.16	27 1	13.33	30 30	14.43	53	72.46	45 01	14.29	41	9.00	47 10
15.83	6	75.15	36 20	10.60	42	96.13	36 30	15.06	2	13.57	34 13	16.28	54	72.62	41 22	16.28	42	9.13	43 47
16.28	7	75.52	36 51	15.31	46	97.07	33 46	10.54	3	13.70	39 42	16.28	57	73.24	42 02	16.28	44	9.66	46 46
15.01	8	75.58	35 13	14.20	49	97.53	32 24	15.31	11	15.45	38 16	13.36	24 2	74.32	49 53	16.28	52	11.34	44 26
15.41	10	76.20	38 56	14.20	49	97.57	38 58	16.28	19	17.24	30 56	16.09	12	76.51	46 21	15.41	55	11.88	41 29
15.83	11	76.23	32 10	16.28	50	97.75	34 43	11.32	25	18.51	33 17	15.41	17	77.55	42 36	13.84	55	11.91	48 40
13.88	11	76.35	36 43	15.52	50	97.85	34 52	12.18	29	19.39	32 01	16.28	17	77.56	46 09	15.57	56	12.09	44 44
15.94	12	76.44	33 18	14.43	26 1	0.21	36 56	15.01	30	19.48	34 02	10.44	20	78.21	40 10	15.41	57	12.43	42 00
15.52	12	76.48	31 48	15.94	1	0.28	37 08	15.52	30	19.54	32 09	15.67	21	78.46	40 44	11.15	58	12.48	40 25
13.97	12	76.53	30 23	15.16	3	0.56	31 01	15.83?	30	19.62	37 50	11.48	22	78.73	48 32	16.28	27 0	12.99	42 44
14.96	12	76.57	39 52	13.53	5	1.16	35 45	9.49	32	19.99	32 51	16.28	29	80.24	49 05	14.67	4	13.92	43 25
14.53	18	77.90	30 35	14.11	6	1.20	31 15	15.57	32	20.00	38 56	14.43	33	81.18	41 38	16.09	6	14.23	45 55
16.28	20	78.20	38 22	15.83	7	1.45	35 26	14.53	37	20.99	32 14	15.31	36	81.73	48 43	15.26	6	14.27	48 33
16.28	21	78.52	32 57	14.34	7	1.48	36 04	13.40	37	21.08	32 58	15.52	36	81.79	43 18	15.31	6	14.37	41 15
16.09	22	78.63	31 54	16.28	8	1.73	31 16	16.09	38	21.36	35 26	12.28	39	82.44	40 36	12.35	10	15.12	48 52
13.97	23	78.93	36 10	8.08*	10	2.18	39 26	15.67?	40	21.75	36 37	16.09	48	84.42	49 44	15.57	10	15.22	48 56
14.67	24	79.22	34 44	14.77	11	2.29	33 24	15.78	41	21.88	33 44	13.53	49	84.61	43 08	15.01	13	15.91	49 28
13.32	25	79.27	34 28	16.28	11	2.33	38 16	13.11	44	22.59	34 51	14.29	51	84.97	42 56	10.89	21	17.56	47 59
16.28	29	80.17	35 56	16.28	11	2.47	36 12	15.31	46	22.95	31 43	16.28	57	86.32	45 52	10.49	23	17.91	47 37
15.57	32	80.92	38 05	13.32	11	2.49	30 37	15.83	46	22.99	32 44	14.91	25 7	88.41	44 38	15.57	24	18.20	47 41
15.26	32	80.93	35 59	13.11	12	2.71	31 37	15.78	46	23.11	35 36	16.28	7	88.53	49 56	15.94	24	18.31	46 15
15.06	35	81.42	37 51	16.28	12	2.71	36 40	15.57	52	24.31	37 39	15.67	13	89.81	43 27	13.53	27	18.97	46 19

25 prec. + 92 sec. — 4' 57".

251—300				301—350				351—400				401—450				451—500			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$ / $y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.32	27 30	19.54	42 54	16.28	25 21	91.47	59 29	16.28	27 15	16.35	52 39	16.09	24 22	78.80	3 07	13.32	27 6	14.38	2 37
15.01	31	19.68	45 39	15.94	21	91.64	56 15	16.28	19	17.14	59 35	16.09	22	78.89	5 00	15.57	7	14.56	1 52
12.01	31	19.83	43 55	15.78	23	91.91	57 36	15.78	22	17.77	56 25	15.52	23	78.92	6 52	10.68	8	14.66	3 38
14.43	34	20.30	45 16	15.78	27	92.84	56 11	14.91	22	17.86	50 26	15.57	24	79.23	9 23	14.06	10	15.22	5 52
15.01	37	21.00	41 19	15.31	29	93.29	59 14	15.41	24	18.19	57 35	15.83	28	80.10	3 02	15.83	10	15.25	7 08
15.83	41	21.93	44 25	16.28	34	94.40	51 59	14.67	25	18.36	52 51	16.28	29	80.35	6 38	15.67	13	15.82	4 05
15.16	42	22.21	42 41	15.78	35	94.58	53 10	16.28	32	19.88	57 04	13.66	29	80.37	2 51	11.63	17	16.70	2 37
14.15	43	22.43	40 23	16.28	37	95.03	56 23	13.84	35	20.55	58 02	14.34	29	80.40	3 51	14.67	23	18.01	4 44
14.91	47	23.29	45 27	11.49	42	96.13	58 10	16.09	35	20.61	55 32	15.67	33	81.12	4 46	12.35	24	18.16	3 08
16.28	51	23.99	43 18	16.28	44	96.59	57 07	14.11	36	20.78	51 49	15.41	42	83.09	6 11	15.41	25	18.43	0 12
15.01	51	24.19	45 21	16.28	47	97.12	59 53	15.94	37	20.97	57 15	10.54	48	84.49	7 20	13.36	26	18.52	9 51
13.28	58	25.60	40 00	10.99	53	98.48	57 28	16.28	37	20.98	53 13	16.09	50	84.76	8 23	12.35	29	19.29	6 37
15.57	23 24	66.22	53 10	14.62	53	98.48	50 16	11.14	38	21.20	53 05	14.81	58	86.49	3 34	15.41	32	19.93	2 50
16.28	28	67.07	56 19	15.26	58	99.57	54 21	15.31	38	21.25	57 16	15.01	58	86.65	4 36	14.67	40	21.52	9 33
14.77	30	67.51	54 45	16.28	26 0	99.94	50 41	14.11	38	21.32	59 04	14.81	25 0	87.06	9 10	14.91	40	21.61	1 07
16.28	30	67.58	58 12	15.41	5	1.10	55 58	15.46	41	21.80	59 48	15.67	0	87.10	1 44	12.72	42	22.10	3 08
12.92	32	68.01	57 50	15.06	10	2.20	53 15	15.52	41	21.86	58 15	13.24	2	87.38	6 46	16.28	42	22.17	3 32
15.52	39	69.42	53 10	15.57	11	2.40	52 39	13.97	41	21.98	54 45	15.26	2	87.44	7 34	15.78	47	23.08	1 20
15.78	42	69.99	52 56	15.94	11	2.46	52 14	15.31	42	22.02	53 47	13.45	15	90.19	4 41	12.53	48	23.34	1 04
14.57	42	70.10	50 12	16.28	11	2.47	54 03	13.32	43	22.34	59 15	15.94	21	91.58	4 35	15.31	23 29	67.33	13 00
12.35	46	70.99	50 54	15.52	14	3.11	59 11	14.81	48	23.30	52 02	15.94	22	91.74	4 46	15.31	32	67.99	18 11
16.09	54	72.68	52 27	15.16	15	3.26	59 14	15.41	50	23.89	57 34	14.38	23	92.07	9 52	16.28	34	68.41	14 34
15.41	55	72.90	55 55	14.57	17	3.59	52 06	16.28	50	23.91	52 27	14.06	24	92.22	5 52	14.34	34	68.45	12 52
16.28	24 0	74.00	55 01	13.84	18	3.91	51 20	14.29	51	24.14	50 50	16.09	36	94.71	0 05	14.81	35	68.62	19 18
15.52	2	74.33	56 35	15.67	23	5.07	54 54	15.01	52	24.32	56 18	14.20	39	95.46	0 04	12.53	37	69.20	11 20
15.52	3	74.68	50 35	15.57	24	5.25	59 20	14.81	53	24.48	57 35	15.67	40	95.69	4 56	13.66	38	69.41	14 08
13.53	6	75.41	57 17	16.28	25	5.45	52 51	14.29	54	24.73	55 14	8.35*	43	96.40	2 53	15.31	43	70.40	16 52
15.67	8	75.71	54 07	13.45	29	6.27	53 45	15.73	57	25.36	50 22	15.01	46	96.96	5 12	15.52	48	71.46	17 01
15.83	10	76.06	54 57	16.09	34	7.30	54 09	12.35	23 25	66.50	4 59	14.53	53	98.50	6 03	15.67	51	72.19	13 39
15.41	16	77.42	53 51	14.34	37	8.09	51 12	15.16	25	66.55	7 52	16.28	57	99.42	3 03	15.41	54	72.69	12 34
15.16	16	77.44	59 04	16.28	39	8.44	55 30	15.06	27	66.88	8 56	13.53	58	99.56	8 27	16.09	59	73.80	14 19
13.97	16	77.48	55 31	15.52	43	9.22	50 22	15.01	36	68.86	1 23	15.31	59	99.74	3 37	15.31	59	73.90	14 51
16.28	27	79.78	57 34	15.83	44	9.48	53 06	15.94	43	70.28	5 37	15.67	26 1	0.24	1 31	15.57	24 0	74.12	19 46
15.67	27	79.83	51 39	13.75	45	9.72	56 55	14.77	45	70.85	7 15	15.78	2	0.39	3 38	16.28	5	75.08	15 48
15.16	30	80.47	56 26	15.26	52	11.16	58 59	16.28	45	70.86	8 13	15.31	2	0.48	1 33	15.57	8	75.77	14 12
16.28	30	80.51	58 10	13.32	52	11.16	50 30	14.77	49	71.76	6 30	16.09	11	2.38	9 12	15.26	12	76.67	10 51
16.28	30	80.59	57 50	11.12	57	12.26	55 09	12.35	51	72.06	9 16	14.91	11	2.40	1 36	15.16	20	78.44	19 58
15.94	33	81.11	51 29	15.83	57	12.38	56 00	11.24	55	72.91	5 14	15.57	12	2.63	0 51	13.11	30	80.50	10 41
16.28	33	81.12	58 28	15.52	59	12.71	55 12	15.41	56	73.10	4 19	15.67	14	3.10	3 32	13.75	34	81.39	12 23
15.67	33	81.21	53 25	15.01	59	12.81	53 37	15.01	57	73.36	4 26	16.09	16	3.46	7 05	15.57	39	82.60	14 19
15.26	35	81.54	55 34	14.43	27 0	12.98	55 27	15.26	58	73.64	2 21	15.78	20	4.25	1 19	14.81	48	84.45	15 45
14.53	36	81.72	50 28	15.26	1	13.12	52 55	16.28	59	73.76	0 52	15.41	31	6.76	2 05	16.28	54	85.81	14 23
12.92	37	82.06	57 19	13.40	1	13.23	54 42	13.84	24 6	75.45	6 18	16.09	34	7.42	2 06	15.52	55	86.05	14 37
15.67	46	84.05	57 40	15.36	6	14.33	50 08	12.53	7	75.59	4 57	14.67	36	7.87	6 40	15.26	25 0	87.04	16 43
15.83	47	84.21	57 42	16.28	8	14.73	51 34	15.01	9	76.00	7 18	14.81	37	7.95	5 02	16.28	3	87.71	18 08
15.83	50	84.90	50 57	15.52	9	15.00	53 03	13.53	13	76.95	2 42	16.28	37	7.97	4 25	14.67	11	89.35	16 37
13.32	52	85.20	59 08	15.57	10	15.23	53 18	14.91	15	77.35	5 58	16.28	42	9.03	5 53	13.66	11	89.43	15 57
15.57	25 18	90.84	54 41	14.43	11	15.47	56 24	14.91?	16	77.54	5 44	16.28	51	11.07	3 34	13.32	12	89.69	13 09
13.62	18	90.99	54 00	14.91	14	16.02	50 53	14.77?	17	77.63	5 45	16.28	52	11.20	2 34	16.28	12	89.70	16 52
14.53	20	91.31	53 56	16.28	15	16.28	52 36	13.97	21	78.65	2 36	15.57	27 3	13.53	0 41	15.78	16	90.43	12 19

25 prec. + 92 sec. — 4′ 57″.

501—540				541—580				581—620				621—659			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.67	25 20	91.45	12 34	13.84	27 17	16.67	13 05	15.31	24 35	81.73	23 45	14.81	26 17	3.59	20 52
15.41	23	92.08	17 19	14.57	18	16.88	11 27	16.09	38	82.25	23 06	15.31	25	5.34	21 52
16.28	24	92.13	16 58	15.57	19	17.14	10 36	16.28	39	82.47	20 37	13.84	29	6.18	21 50
15.94	24	92.18	15 03	15.52	19	17.15	15 38	14.53	41	83.01	21 24	14.91	30	6.36	22 56
15.52	27	92.87	11 11	16.28	22	17.74	13 56	12.92	43	83.38	29 07	12.92	33	7.15	23 52
16.28	28	93.08	16 06	15.78	22	17.74	12 51	15.26	46	83.94	21 55	13.40	37	8.07	25 07
11.70	29	93.22	10 41	13.24	28	18.94	13 14	13.45	46	84.00	28 54	16.28	40	8.52	25 16
14.53	31	93.66	14 20	12.53	34	20.24	12 55	15.06	47	84.29	21 17	14.67	40	8.68	21 13
11.36	34	94.47	19 54	14.34	42	22.08	17 18	14.91	52	85.25	24 27	15.67	45	9.77	22 03
15.78	37	95.13	13 19	15.94	43	22.23	11 34	16.28	58	86.69	21 58	13.75	46	10.02	25 30
14.91	40	95.67	16 28	13.71	46	22.80	19 38	15.41	25 0	87.12	21 49	14.77	50	10.77	21 05
15.01	41	95.97	15 31	14.81	47	23.19	15 51	16.09	8	88.69	25 24	12.01	53	11.43	26 57
16.28	50	97.78	17 27	14.43	50	23.77	10 55	13.11	13	89.89	27 03	15.83	55	11.76	21 48
15.83	50	97.81	10 31	14.81	50	23.85	10 48	15.83	14	90.12	21 33	14.67	27 0	12.93	24 29
15.16	52	98.20	13 08	11.43	53	24.49	14 18	15.31	16	90.61	22 06	16.09?	1	13.06	22 50
15.26	53	98.44	17 03	16.28	28 0	25.91	18 55	16.28	19	91.18	28 50	14.11	1	13.09	23 34
15.52	53	98.52	17 46	14.20	23 24	66.31	24 27	11.52	19	91.18	22 13	15.31	2	13.42	21 46
14.57	26 2	0.36	10 11	14.06	24	66.44	25 13	11.47	22	91.92	25 45	15.31	2	13.43	24 15
10.88	3	0.68	15 17	15.83	30	67.71	29 42	16.28	26	92.60	26 10	16.28	5	14.01	27 24
14.81	7	1.46	16 19	15.57	30	67.71	29 03	11.76	26	92.61	20 30	13.62	5	14.03	21 59
15.41	10	2.11	13 09	14.96	32	68.14	20 23	9.40*	26	92.76	28 29	12.72	6	14.26	25 28
15.26	11	2.48	15 16	15.41	34	68.58	28 00	14.91	33	94.20	26 07	13.97	7	14.42	28 55
16.09	13	2.91	13 40	14.29	35	68.83	23 24	13.53	33	94.22	24 40	16.28	13	15.78	27 27
13.71	15	3.22	19 30	16.28	39	69.58	25 17	11.30	36	94.82	25 49	16.28	16	16.50	26 53
16.28	15	3.22	13 11	15.16	40	69.89	24 26	14.81	38	95.28	20 29	13.97	27	18.79	21 45
14.11	18	3.86	13 30	14.62	41	69.97	20 21	16.28	39	95.50	27 38	10.40	28	19.07	22 24
16.28	19	4.05	16 29	16.09	42	70.14	25 47	14.53	39	95.52	25 33	16.28	30	19.30	24 04
11.39	22	4.82	19 40	16.28	43	70.37	27 54	15.78	43	96.36	23 37	11.14	30	19.34	22 45
15.52	23	5.00	19 50	16.28	48	71.63	22 43	16.28	43	96.39	23 05	15.57	32	19.86	22 30
13.88	31	6.64	12 08	13.11	52	72.35	26 33	16.28	49	97.60	24 33	16.28	32	19.94	20 12
16.28	41	8.77	12 54	13.88	55	73.05	29 09	16.28	51	98.09	29 09	16.09	38	21.12	24 05
15.57	44	9.58	16 14	13.97	55	73.08	22 15	12.53	52	98.18	20 54	15.83	39	21.40	25 30
14.29	46	9.97	17 10	15.06	24 0	74.10	28 48	14.81	54	98.78	20 26	16.09	41	21.81	26 24
12.53	54	11.76	12 51	13.88	0	74.20	24 33	16.28?	57	99.33	22 10	15.67	44	22.41	29 08
15.01	27 6	14.35	17 19	16.28	3	74.77	29 50	13.11	26 1	0.16	25 58	15.31	46	22.80	20 31
12.72	7	14.46	15 17	15.01	7	75.73	29 33	12.01	2	0.39	28 57	13.88	49	23.51	22 35
15.41	9	14.97	17 58	15.94	15	77.39	26 05	16.28	6	1.37	29 11	14.11	51	23.95	29 37
14.81	12	15.60	13 59	15.31	25	79.50	20 26	13.53	7	1.56	21 11	13.03	53	24.31	29 26
11.45	14	15.96	14 26	15.26	30	80.49	28 32	12.35	14	3.02	21 01	15.83	59	25.67	24 50
15.06	16	16.45	11 41	15.57	30	80.51	21 27	14.81	16	3.36	28 41				

25 prec. + 92 sec. — 4′ 58″.

Area 53. Centre for 1900: $9^h\ 25^m + 30^\circ\ 0'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.01	21 36	55.55	28 14	15.01	26 18	17.02	27 01	15.07	23 54	85.57	33 05	15.38	21 38	56.24	42 42	14.94	25 42	9.13	49 37
13.91	45	57.58	24 33	15.85	21	17.71	27 35	14.88	56	86.10	31 34	15.01	48	58.12	47 34	14.76	43	9.42	42 45
14.88	22 0	60.72	25 19	11.21	24	18.24	24 49	12.68	58	86.51	33 57	14.19	48	58.36	45 54	13.00	58	12.57	49 40
12.32	5	61.94	28 39	15.32	27	18.94	27 56	14.30	24 4	87.82	35 19	14.08	50	58.65	40 10	14.02	26 2	13.41	41 53
14.59	10	62.98	26 52	13.43	29	19.46	29 25	15.07	4	87.84	30 48	15.32	51	58.96	45 14	14.88	5	14.05	45 15
13.75	13	63.57	22 04	11.69	30	19.70	23 55	13.05	9	88.94	33 24	15.32	22 2	61.42	42 47	15.66	7	14.57	40 54
15.01	16	64.40	20 25	14.30	31	19.84	27 32	15.32	15	90.17	38 01	15.85	19	65.08	49 13	12.84	7	14.58	46 01
15.01	17	64.55	20 10	14.88	33	20.20	23 46	15.85	23	91.85	39 49	14.76	21	65.58	43 20	12.94	20	17.45	42 50
14.47	21	65.28	27 28	13.05	49	23.72	26 34	15.19	25	92.40	31 17	12.32	23	66.01	41 44	15.38	22	17.85	44 01
14.02	21	65.43	25 09	15.19	51	24.20	23 26	14.88	32	93.96	33 24	13.48	24	66.15	49 14	13.64	27	18.78	48 51
14.88	25	66.22	29 22	14.13	27 16	29.64	20 28	15.66	35	94.48	38 26	14.88	42	70.15	41 08	15.32	28	19.10	44 55
15.51	29	67.11	25 33	14.76	26	31.87	20 22	9.81*	37	94.90	33 09	10.15*	49	71.65	49 32	13.75	34	20.39	47 54
15.32	31	67.46	22 08	14.71	21 33	55.01	34 07	14.76	38	95.20	39 55	15.51	51	72.10	49 46	14.88	37	20.96	46 45
14.13	32	67.67	28 14	14.71	35	55.40	39 36	13.75	38	95.20	32 44	14.76	54	72.64	44 12	15.85	46	22.94	41 43
15.07	33	67.92	25 23	15.51	39	56.24	39 01	14.19	38	95.22	35 25	14.76	59	73.66	44 12	13.48	48	23.54	40 57
15.01	34	68.14	25 04	14.13	40	56.46	39 28	15.85	48	97.48	39 50	15.85	23 1	74.11	42 04	15.07	51	24.02	47 22
15.32	44	70.36	27 23	15.07	41	56.72	36 28	15.66	49	97.60	33 09	14.02	3	74.56	43 19	9.98	55	25.02	47 56
14.88	46	70.80	28 23	14.59	42	56.94	33 18	15.66	55	98.90	36 37	14.71	13	76.82	42 37	15.07	57	25.39	40 40
15.01	48	71.14	20 46	12.84	50	58.70	31 49	15.01	57	99.34	33 47	14.88	14	76.93	41 15	14.13	59	25.86	45 14
12.79	23 3	74.54	20 13	15.07	56	60.01	38 25	15.85	25 25	5.49	36 52	11.72	17	77.60	46 57	12.16	27 3	26.67	40 46
14.59	4	74.83	24 34	15.01	22 2	61.40	35 19	15.85	26	5.64	31 15	15.38	25	79.29	41 17	15.07	9	27.99	44 58
12.79	4	74.84	27 13	15.85	3	61.52	39 04	15.01	28	6.16	39 49	13.32	25	79.42	42 55	15.07	16	29.52	45 17
14.88?	8	75.64	22 56	13.64	11	63.36	31 26	15.85	31	6.81	36 05	15.85	28	80.04	47 29	14.88	27	31.83	45 59
15.01	9	75.76	23 25	13.91	15	64.20	36 37	14.02	32	7.04	33 01	15.19	34	81.28	47 15	13.32	30	32.46	45 04
14.47	14	76.90	26 16	14.13	16	64.26	31 58	11.53	38	8.29	35 23	15.85	41	82.94	40 48	13.75	30	32.47	40 56
15.01	22	78.75	23 04	14.65	18	64.75	39 29	15.32	46	9.96	31 09	15.66	44	83.54	41 03	15.32	21 30	54.51	53 53
15.19	28	79.87	25 17	15.07	22	65.64	32 59	14.76	55	12.02	32 48	15.85	46	83.87	49 25	14.76	35	55.50	51 37
15.85	36	81.68	25 33	15.85	24	66.17	38 34	15.85	26 0	13.06	39 18	15.85	51	85.03	43 23	15.07	36	55.74	58 27
15.66	36	81.71	20 58	15.85	28	67.02	31 25	14.76	1	13.20	30 19	15.85	52	85.17	41 56	15.32	39	56.46	53 02
12.16	42	82.97	26 38	14.71	30	67.35	32 27	12.94	7	14.61	38 42	13.91	57	86.27	41 36	15.07	43	57.20	50 23
15.07	24 3	87.67	28 23	12.42	32	67.77	30 44	12.16	18	16.91	35 58	15.51	24 10	89.07	46 10	15.07	44	57.61	56 37
15.85	15	90.27	29 11	13.80	33	68.04	39 26	15.85	20	17.31	32 04	15.07	17	90.73	41 10	15.38	47	58.24	51 42
11.55	16	90.50	24 04	15.85	37	68.83	32 43	15.19	21	17.64	37 24	14.47	23	91.97	42 54	15.85	50	58.80	57 10
13.75	28	93.04	26 33	15.32	44	70.52	32 46	11.65	22	17.82	32 02	15.32	26	92.68	42 37	15.85	53	59.56	59 57
14.42	48	97.34	28 17	14.76	51	71.97	35 47	15.38	31	19.73	36 24	15.32	32	93.84	44 47	14.19	58	60.57	51 49
14.13	52	98.23	28 35	10.93	56	72.99	32 29	15.19	32	19.99	30 23	14.42	32	93.96	48 04	12.94	22 5	61.99	52 24
15.85	25 2	0.33	25 28	13.86	23 1	74.17	38 13	15.66	34	20.43	31 35	15.01	38	95.21	41 53	15.85	6	62.32	51 53
15.85	14	3.16	23 50	12.16	3	74.52	34 19	14.19	42	22.12	35 05	15.07	39	95.39	46 24	15.85	13	63.80	50 48
14.42	15	3.32	20 54	15.85	12	76.51	30 31	12.79	46	23.09	35 33	15.66	43	96.32	46 36	14.30	13	63.89	55 38
15.32	27	5.78	25 19	13.64	24	79.06	39 40	14.71	48	23.59	32 44	15.38	48	97.41	47 16	15.07	19	65.05	56 07
13.59	39	8.58	22 03	14.42	27	79.82	35 22	15.85	59	25.92	30 39	15.19	49	97.53	48 46	14.02	19	65.09	55 08
14.59	42	9.11	26 46	11.79	28	79.92	34 17	14.76	27 11	28.57	33 08	15.01	56	99.19	41 59	14.71	22	65.66	59 48
12.84	48	10.56	22 41	15.85	30	80.52	39 54	15.85	19	30.30	30 27	12.84	56	99.22	49 12	13.91	24	66.23	51 56
15.85	55	12.00	25 21	15.85	33	80.99	30 58	14.19	26	31.83	37 26	12.68	58	99.55	43 50	15.85	29	67.33	56 36
11.32	56	12.22	29 22	14.59	36	81.73	35 46	13.75	26	31.84	39 43	15.85	25 2	0.50	46 01	14.88	30	67.61	56 28
15.66	26 5	14.10	27 26	15.07	38	82.26	37 18	14.02	30	32.57	39 16	9.70*	15	3.26	43 41	14.88	32	67.86	52 02
15.01	8	14.86	23 35	15.51	44	83.47	32 35	14.76	31	32.84	32 37	14.02	18	3.89	47 49	14.42	32	67.90	54 16
15.85	8	14.86	28 33	15.01	45	83.61	38 22	15.07	32	33.04	39 16	14.71	22	4.76	43 23	14.76	37	69.11	51 44
14.59	12	15.57	26 29	15.38	49	84.54	30 15	13.21	21 31	54.69	44 49	11.53	25	5.33	44 49	13.37	38	69.26	59 38
15.85	16	16.50	21 10	15.01	51	84.94	36 56	13.59	35	55.42	48 25	13.91	42	9.06	48 15	14.42	39	69.38	53 06

25 prec. + 89 sec — 6' 30".

Area 53.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′ / y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.51	22 39	69.40	55 40	13.75	26 46	23.03	52 17	14.76	23 24	79.25	9 48	14.71	21 42	57.24	15 16	14.47	24 55	99.01	18 32
13.97	41	69.83	59 50	15.85	50	23.84	55 22	14.88	27	79.94	4 04	15.85	51	59.24	13 08	15.07	25 3	0.73	18 51
14.88	42	70.15	55 21	15.51	53	24.41	50 45	13.86	34	81.45	9 43	10.26	55	60.01	11 54	10.71	10	2.16	18 13
15.01	45	70.73	52 29	13.05	53	24.57	52 43	11.90	34	81.48	8 14	15.85	59	60.84	13 43	15.85	26	5.68	18 37
14.47	47	71.09	58 51	15.85	56	25.17	58 08	15.01	47	84.28	3 03	14.13	22 2	61.59	17 20	12.94	26	5.73	12 50
13.37	49	71.65	52 40	13.26	58	25.66	50 24	15.01	56	86.05	6 49	13.91	3	61.79	12 11	14.71	30	6.38	15 23
13.86	55	72.96	50 58	15.32	59	25.77	58 40	14.59	57	86.32	2 31	15.66	5	62.16	15 46	15.07	44	9.41	14 01
15.51	57	73.33	58 09	13.32	27 1	26.32	50 32	15.85	59	86.73	5 59	15.01	7	62.68	13 10	15.51	46	9.85	16 47
14.19	23 15	77.34	54 19	12.79	2	26.43	51 03	15.51	59	86.78	4 44	14.42	11	63.43	14 24	12.58	47	10.20	13 56
12.42	21	78.56	51 04	13.10	6	27.20	50 09	14.76	24 1	87.15	9 12	14.13	13	63.89	14 45	12.58	54	11.66	12 37
15.66	24	79.10	51 29	13.86	15	29.28	51 44	15.51	9	89.00	8 14	14.13	17	64.84	15 07	14.02	55	11.88	18 42
14.19	28	79.98	57 19	14.59	20	30.38	53 25	15.66	15	90.26	6 40	13.86	18	65.08	13 27	15.85	59	12.66	14 09
14.42	31	80.77	58 23	14.02	26	31.74	53 36	15.85	17	90.67	6 10	14.76	25	66.43	10 21	14.02	26 0	13.03	12 06
15.32	32	80.82	57 39	15.51	30	32.46	51 07	14.59	18	90.94	3 06	15.85	32	68.11	12 49	15.32	2	13.47	17 24
15.66	46	84.04	50 27	15.19	33	33.09	58 43	14.88	19	91.08	0 59	15.38	34	68.45	18 50	15.66	3	13.59	16 08
13.21	59	86.86	57 09	12.16	34	33.35	53 41	9.25*	34	94.31	0 44	15.32	39	69.61	18 10	15.07	9	14.92	18 28
13.64	24 0	86.95	50 48	11.32	35	33.59	59 40	13.64	34	94.47	1 54	13.75	39	69.64	12 00	15.85	20	17.31	11 47
15.07	8	88.75	55 46	14.76	36	33.76	55 48	13.48	35	94.60	8 57	15.32	40	69.83	16 10	15.32	21	17.42	10 53
14.47	8	88.80	52 08	12.42	21 32	54.90	5 20	15.85	46	97.02	6 56	14.30	41	69.94	19 14	15.01	29	19.16	16 05
15.32	9	88.99	56 28	12.52	32	54.96	7 55	13.05	48	97.40	6 35	15.01	42	70.17	17 37	15.85	29	19.30	19 07
14.42	15	90.20	59 57	15.66	32	55.09	2 52	15.85	49	97.70	6 09	15.85	45	70.92	10 44	15.66	32	19.77	16 21
14.42	23	91.88	58 38	14.02	33	55.25	7 37	15.85	50	97.93	2 46	14.76	50	71.86	13 36	14.02	37	21.03	16 48
15.07	24	92.25	55 53	13.75	37	56.06	8 19	14.02	58	99.61	1 33	13.75	57	73.36	15 07	13.91	42	21.96	11 05
15.85	33	94.18	52 26	14.88	38	56.21	4 34	14.76	25 9	1.97	3 12	14.13	23 3	74.75	15 00	13.21	44	22.51	14 07
15.66	41	95.81	53 19	14.42	44	57.70	0 03	14.19	13	2.87	9 33	12.68	10	76.22	19 27	15.66	45	22.58	11 08
15.85	45	96.65	57 48	15.01	47	58.31	3 37	10.61	27	5.80	6 49	15.66	20	78.45	15 43	14.30	46	22.98	16 52
14.82	52	98.28	59 35	15.85	48	58.43	0 59	15.07	33	7.11	0 47	15.85	25	79.58	17 49	12.84	47	23.02	11 47
14.30	53	98.55	54 48	13.37	57	60.41	3 40	14.76	48	10.29	1 15	12.84	39	82.44	16 36	15.51	49	23.54	18 34
15.38	54	98.71	56 08	14.13	22 4	61.89	2 52	15.38	50	10.72	1 56	14.13	39	82.51	18 48	14.30	53	24.49	14 15
14.76	25 13	2.84	54 32	13.32	5	62.11	9 59	15.19	52	11.29	4 13	15.85	41	82.91	15 58	15.85	56	25.12	10 33
13.91	20	4.32	59 43	14 71	6	62.36	3 52	13.64	26 0	12.89	0 42	15.07	42	83.09	15 28	15.66	27 0	26.00	14 25
15.07	22	4.80	58 03	15.38	10	63.13	5 40	15.66	17	16.62	4 50	14.76	47	84.30	19 30	15.01	5	26.89	12 20
11.82	24	5.10	55 22	13.32	13	63.88	8 26	14.47	17	16.70	2 29	15.01	54	85.78	16 15	12.52	14	29.02	13 21
13.86	24	5.16	52 03	14.36	15	64.33	0 01	14.02	19	17.16	8 51	14.71	55	85.97	12 12	14.59	17	29.62	17 44
15.38	27	5.85	50 20	15.01	17	64.73	1 46	15.38	19	17.17	2 34	13.75	57	86.49	10 13	11.05	23	30.93	14 46
15.07	28	5.97	59 05	13.59	22	65.85	2 29	15.01	28	19.12	4 46	13.37	24 1	87.30	17 05	15.19	26	31.42	15 50
15.85	43	9.37	55 26	15.66	23	65.95	8 33	12.79	33	20.15	3 32	15.38	1	87.33	11 00	15.19	29	32.18	18 12
15.32	47	10.26	50 10	14.88	29	67.29	6 10	9.13	36	20.80	1 42	14.42	14	90.02	16 32	14.30	21 27	54.16	24 39
14.02	49	10.70	58 18	15.85	29	67.34	2 45	14.76	40	21.54	3 19	14.24	18	90.99	10 14	14.47	38	56.48	23 06
14.76	26 0	13.00	55 47	14.76	33	68.25	2 04	13.75	41	21.86	2 44	12.68	22	91.90	17 31	15.51	39	56.74	26 00
15.66	1	13.26	59 51	15.85	35	68.54	7 52	13.75	56	25.11	2 25	14.59	24	92.19	17 49	11.79	40	56.92	25 30
15.85	2	13.36	51 08	15.01	36	68.92	4 50	14.59	27 5	27.07	4 56	15.85	25	92.45	12 20	15.66	49	58.79	25 40
14.88	13	15.77	57 15	14.88	44	70.54	1 37	14.71	10	28.13	3 55	11.62	27	92.87	16 35	14.76	51	59.33	21 33
13.64	14	15.94	54 35	13.86	50	71.81	3 13	11.65	12	28.47	9 42	14.76	38	95.18	18 02	15.66	52	59.57	21 51
14.47	21	17.59	59 07	13.59	52	72.24	1 24	15.66	18	29.78	5 28	10.83	40	95.79	14 25	15.07	58	60.78	27 50
14.76	22	17.68	55 40	14.94	23 9	76.02	9 36	14.13	27	31.72	7 39	14.76	43	96.24	14 32	15.85	59	60.92	24 56
14.30	22	17.71	57 16	14.88	12	76.57	2 56	14.88	29	32.25	5 18	15.85	45	96.71	15 50	15.85	22 5	62.26	28 25
14.82	40	21.72	59 26	12.84	20	78.45	5 00	14.88	21 32	55.06	11 37	15.66	47	97.18	12 30	14.71	7	62.62	24 03
15.85	41	21.98	51 22	14.59	22	78.72	5 03	15.51	32	55.13	16 28	15.66	48	97.42	14 08	12.94	9	63.19	28 46
15.19	46	23.01	51 10	12.16	23	78.99	4 03	15.85	35	55.76	15 19	14.88	52	98.32	10 48	12.58	12	63.69	20 58

25 prec. + 89 sec. — 6′ 30″.

9^h Area 53. + 30°

501—530				531—560				561—590				591—620				621—632			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.85	22 13	64.00	22 07	14.88	24 59	99.87	27 05	14.59	21 52	59.58	39 46	14.02	24 30	93.66	36 30	15.01	27 1	25.99	38 10
12.42	13	64.09	28 40	15.07	25 1	0.15	29 17	13.86	59	61.04	37 43	14.71	31	93.77	33 32	14.71	8	27.60	31 43
15.38	15	64.35	28 49	13.86	9	1.88	25 15	14.59	22 0	61.30	35 14	14.71	39	95.42	36 25	13.64	8	27.63	31 51
13.64	34	68.54	29 10	15.38	11	2.46	27 36	15.85	17	64.91	33 19	15.07	39	95.55	37 14	14.42	10	27.88	36 53
14.13	40	69.78	27 14	14.19	13	2.79	29 52	14.88	18	65.17	34 29	15.38	43	96.38	38 12	14.30	22	30.47	38 18
14.71	40	69.93	24 06	12.58	25	5.37	27 20	12.16	20	65.65	37 29	14.30	44	96.58	39 10	15.01	25	31.25	33 10
10.08	44	70.75	24 54	13.37	33	7.04	22 21	14.71	25	66.69	38 41	15.07	47	97.28	32 33	14.88	26	31.45	39 03
15.07	44	70.79	28 19	15.38	38	8.17	25 50	14.76	29	67.44	34 41	15.38	50	97.74	36 32	14.71	27	31.54	31 06
14.88	50	72.00	25 12	15.07	38	8.22	25 28	15.66	38	69.46	30 22	14.30	54	98.68	32 46	14.71	30	32.20	31 04
15.85	54	72.83	26 40	15.26	47	10.19	29 33	10.74	39	69.61	32 00	15.66	59	99.74	30 45	15.85	36	33.58	35 13
15.19	54	72.90	29 23	14.30	26 0	13.04	28 06	13.91	49	71.74	32 24	15.85	25 1	0.17	37 37	10.89	36	33.67	35 00
13.37	23 6	75.33	28 29	15.85	4	13.89	20 20	15.07	52	72.55	34 31	13.48	5	1.15	35 04	14.19	37	33.85	38 40
15.85	6	75.48	26 32	14.71	21	17.46	25 46	15.38	55	73.02	32 16	13.91	11	2.32	36 20				
15.19	13	76.86	28 14	14.71	22	17.65	26 30	14.59	23 2	74.72	39 37	14.02	26	5.54	39 32				
14.13	16	77.65	29 43	15.38	27	18.80	22 29	14.88	12	76.86	33 14	13.75	32	6.85	37 17				
14.47	30	80.62	27 30	15.85	28	18.90	22 55	13.59	23	79.16	32 39	15.66	38	8.10	39 39				
10.83	45	83.76	22 36	12.42	29	19.17	23 05	14.88	25	79.49	32 46	15.85	50	10.67	36 15				
15.38	24 2	87.47	28 36	14.02	31	19.60	26 08	13.59	38	82.41	38 31	14.88	59	12.61	39 22				
14.76	8	88.84	29 33	15.85	31	19.70	27 59	14.71	41	82.90	33 37	14.76	26 5	14.07	36 55				
9.48	10	89.12	28 37	15.38?	35	20.51	27 02	15.85	43	83.42	37 56	11.42	10	15.16	36 32				
12.32	11	89.38	28 05	14.88	37	20.94	28 35	14.59	48	84.40	35 24	15.85	15	16.05	38 19				
15.66	20	91.36	26 50	9.90	38	21.13	20 43	11.67	51	85.18	30 04	13.86	21	17.43	36 37				
13.91	26	92.57	21 23	14.88	42	22.06	25 06	15.19	52	85.34	32 59	14.13	23	17.96	32 50				
15.85	26	92.64	28 40	15.85	27 9	27.89	22 18	11.62	54	85.76	33 25	14.19	25	18.34	36 08				
15.51?	28	93.09	20 34	14.42	18	29.85	27 13	14.47	24 3	87.79	38 47	14.19	26	18.44	34 08				
15.01	28	93.21	25 01	12.16	23	30.93	24 15	12.84	4	87.86	35 27	15.85	27	18.66	34 24				
14.71	34	94.35	26 26	14.88	21 29	54.65	37 17	14.59	9	88.99	35 29	13.48	28	18.88	36 44				
15.51	36	94.83	28 59	15.66	32	55.25	32 06	15.01	11	89.44	33 26	14.88	33	19.96	31 15				
14.76	51	98.13	23 56	13.05	33	55.48	32 47	14.71	21	91.68	31 26	14.88	36	20.76	35 50				
14.02	58	99.55	27 33	14.59	46	58.20	34 41	14.88	30	93.44	37 09	14.59	38	21.10	35 37				

25 prec. + 89 sec. — 6′ 31″.

10^h Area 54. Centre for 1900: $10^h\,24^m + 30°\,0'$. + 29°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.68	21 9	62.74	24 02	11.94	23 12	89.63	28 49	13.36	23 48	97.41	27 50	15.61	25 8	14.84	27 23	13.78	26 24	31.43	28 24
12.82	9	62.81	26 56	15.61	17	90.62	28 40	13.23	49	97.51	28 58	13.83	16	16.63	21 56	14.17	25	31.66	29 10
14.70	17	64.51	25 29	11.60	22	91.83	28 21	13.45	58	99.64	28 18	13.32	22	17.80	29 06	13.68	42	35.30	20 36
14.87	36	68.57	21 02	13.68	29	93.35	23 23	14.87	24 14	2.94	27 13	14.28	25	18.54	26 29	14.70	54	37.97	24 50
14.17	36	68.59	28 40	14.70	32	93.91	26 09	14.28	23	4.96	20 29	14.87	47	23.38	25 07	15.42	54	38.00	27 27
14.02	22 23	78.83	20 41	15.10	39	95.47	27 36	13.92	24	5.32	23 01	13.11	59	25.96	28 04	15.27	59	38.98	29 04
15.42	23 6	88.14	25 01	15.61	40	95.62	26 02	14.87	33	7.12	27 00	13.36	26 2	26.53	21 54	14.17	27 2	39.56	23 35
15.61	6	88.23	25 08	14.98	42	96.11	23 42	13.68	36	7.91	28 33	11.43	11	28.62	20 22	14.28	4	40.12	21 52
14.81	10	89.14	23 05	12.94	43	96.22	29 16	12.28	46	10.09	28 37	14.87	12	28.81	25 34	11.77	21 8	62.55	34 55
15.16	11	89.26	23 27	15.27	46	97.02	26 01	14.07	49	10.68	26 58	13.54	22	30.97	20 40	11.43	9	62.79	34 38

25 prec. + 84 sec. — 7′ 38″.

Area 54.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$ $y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.10	21 16	64.25	32 42	12.82	21 37	69.03	48 27	14.81	23 33	94.07	50 22	10.63	24 11	2.31	0 20	15.61?	24 33	7.23	17 37
15.61	21	65.34	31 07	12.90	39	69.45	49 56	12.45	37	94.93	51 46	14.02	11	2.45	5 20	15.27	40	8.58	11 04
14.59	21	65.39	38 48	13.32	47	71.06	45 16	14.33	39	95.37	54 22	15.27	14	2.95	2 30	10.55	58	12.58	19 57
15.61	29	67.15	33 19	13.83	48	71.38	44 27	15.61	40	95.65	56 31	15.10	21	4.52	2 05	14.98	25 19	17.15	12 40
13.36	37	68.89	32 15	10.90	22 33	81.10	44 53	13.11	24 28	6.18	51 49	13.50	25 1	13.16	0 20	14.43	20	17.35	12 57
14.17	38	69.06	35 22	15.10	37	82.05	46 21	13.23	29	6.19	51 21	15.61	32	19.90	8 27	14.54	25	18.34	14 16
14.87	39	69.41	39 10	14.70	41	82.91	44 23	14.02	36	7.90	51 11	12.94	44	22.56	1 12	14.59	38	21.12	15 27
14.54	42	69.99	37 07	13.36	48	84.48	46 07	15.16	50	10.90	51 38	13.83	47	23.05	6 10	13.83	41	21.91	17 29
14.43	44	70.35	30 43	14.70	23 12	89.69	47 54	15.16	58	12.67	51 54	13.78	49	23.55	3 26	14.28	48	23.39	14 13
14.07	45	70.73	34 11	15.10	13	89.80	43 56	13.78	25 3	13.64	52 50	13.68	57	25.35	7 03	14.28	26 7	27.46	19 34
14.33	51	72.02	35 52	12.52	16	90.51	46 59	14.59	13	15.83	58 00	14.81	26 1	26.24	8 14	14.43	12	28.42	19 07
10.78	56	73.12	34 38	14.81	19	91.07	42 27	14.33	23	18.07	55 56	15.10	3	26.55	1 10	14.70	13	28.70	12 56
13.92	22 9	75.78	39 09	14.17	20	91.41	41 06	13.45	27	18.80	55 30	11.09	8	27.58	4 39	14.22	21	30.39	19 56
14.17	12	76.56	38 37	14.02	24	92.11	40 58	13.92	27	18.87	57 25	14.54	56	38.14	1 30	8.09*	24	31.13	14 56
14.02	25	79.31	32 45	14.59	25	92.46	46 14	10.21	28	19.14	57 35	14.02	27 1	39.06	4 14	14.87	33	33.11	17 40
11.17	59	86.64	30 37	14.02	31	93.68	45 02	13.78	29	19.26	54 42	15.27	2	39.34	1 19	14.59	38	34.22	12 07
15.61	23 2	87.39	34 31	15.16	35	94.48	45 14	14.07	34	20.39	58 30	14.17	7	40.52	2 42	15.61	40	34.50	11 11
15.61	11	89.29	34 13	12.45	49	97.62	43 44	14.54	43	22.36	53 19	14.07	14	41.99	9 02	13.83	49	36.56	14 47
15.61	35	94.59	39 34	14.17	53	98.50	46 22	12.28	52	24.29	52 29	7.54	21 21	65.75	11 13	10.75	27 0	38.76	14 21
11.60	43	96.24	34 16	15.10	54	98.60	44 39	14.81	54	24.74	51 31	11.43	23	66.18	10 54	14.54	21 4	62.14	21 07
15.61	43	96.24	36 20	15.61	24 2	0.48	49 15	14.70	26 17	29.60	54 29	12.75	35	68.74	13 35	13.78	10	63.43	25 03
12.56	45	96.84	32 51	13.36	4	0.92	49 33	12.82	30	32.41	52 35	14.87	36	68.94	17 05	14.59	23	66.22	28 39
13.54	58	99.56	37 54	15.61	20	4.44	43 26	13.68	48	36.31	50 07	14.07	59	73.78	13 40	14.59	50	71.92	26 34
15.42	24 4	0.83	31 53	13.83	25	5.39	41 05	14.28	53	37.50	53 57	13.92	59	73.79	17 07	12.45	22 1	74.39	24 38
13.78	11	2.29	30 54	12.63	28	6.09	46 43	14.54	54	37.78	57 22	13.32	59	73.81	12 46	12.28	6	75.48	27 30
11.77	25	5.51	33 24	11.60	34	7.41	44 47	15.61	27 1	39.25	50 17	14.87	22 26	79.60	11 50	13.92	7	75.65	22 08
12.90	33	7.12	30 34	14.38	37	8.00	40 34	13.68	21 8	62.79	4 57	13.78	26	79.63	16 59	15.61	7	75.66	27 52
14.07	39	8.51	31 26	14.81	45	9.79	44 16	13.68	9	62.92	9 01	14.87	30	80.64	15 50	14.54	9	76.02	22 28
14.43	42	9.11	34 30	14.98	25 3	13.66	47 43	14.33	13	63.95	9 04	15.42	42	83.08	15 17	15.61	14	77.22	27 33
14.70	43	9.40	35 56	14.81	3	13.72	46 03	13.92	36	68.90	3 33	14.70	44	83.69	18 04	15.61	48	84.56	27 44
14.70	44	9.60	31 23	14.43	35	20.66	47 14	14.70	38	69.23	5 32	15.61	51	85.13	12 10	14.81	52	85.24	20 53
14.87	48	10.44	39 02	14.54	46	22.95	47 40	11.07	40	69.76	2 54	13.78	54	85.84	13 40	14.59	54	85.86	22 13
14.43	25 11	15.52	34 12	15.10	54	24.65	42 31	11.84	45	70.83	9 44	15.42	57	86.49	19 58	14.70	23 6	88.38	26 08
15.16	14	15.98	32 01	12.45	55	25.00	43 07	15.61	55	72.93	7 38	15.42	58	96.54	17 21	11.70	6	88.46	29 28
15.10	31	19.77	35 07	14.07	26 7	27.59	47 23	13.41	55	73.04	9 48	11.43	23 4	87.82	14 53	15.61	8	88.72	28 54
13.23	36	20.96	35 01	13.11	18	30.04	46 09	13.92	22 7	75.50	6 39	11.43	4	87.86	15 01	14.81	24	92.19	24 52
14.17	43	22.31	34 16	15.10	54	37.81	47 31	12.82	20	78.30	3 04	14.70	7	88.54	13 09	14.17	29	93.40	29 47
14.59	46	23.06	37 10	14.43	57	38.45	46 54	12.94	24	79.30	4 41	14.43 :	21	91.65	19 42	13.68	44	96.52	23 44
14.02	57	25.54	31 12	13.07	27 9	40.94	49 42	14.59	25	79.39	4 06	7.52*	24	92.16	14 25	15.04	51	97.99	20 14
12.63	26 7	27.65	34 14	12.28	21 25	66.34	55 31	14.07	51	85.14	5 34	13.59	29	93.27	10 34	13.59	24 16	3.42	23 29
14.59	11	28.41	38 46	13.78	28	67.04	51 03	10.76	23 6	88.23	2 07	15.61	30	93.62	12 16	12.45	35	7.61	23 31
14.70	14	29.16	32 47	15.27	55	72.84	52 20	15.61	10	89.27	7 21	14.54	44	96.52	10 36	15.27	46	9.97	29 54
15.61	16	29.53	35 16	13.92	22 3	74.71	58 54	14.54	29	93.35	0 43	9.53*	47	97.18	11 39	15.61	54	11.69	22 05
13.83	37	34.11	37 31	15.27	6	75.22	55 08	15.61	39	95.50	1 10	14.81	50	97.87	12 50	15.61	55	11.77	21 06
13.97	38	34.34	39 58	13.11	8	75.80	52 46	14.22×	42	96.21	0 10	14.59	51	98.02	18 46	14.28	59	12.77	25 14
12.45	45	35.85	35 34	14.28	20	78.38	56 32	14.81	59	99.80	8 54	10.81	53	98.53	17 29	14.87	25 11	15.31	22 43
13.73	27 9	41.04	39 53	15.61	25	79.37	50 47	14.17	24 2	0.46	7 21	15.61	24 5	1.02	14 57	10.95	21	17.51	24 38
15.27	21 10	63.12	43 16	14.81	43	83.35	56 49	14.02	8	1.67	7 04	15.61	11	2.45	11 27	15.61	32	19.87	21 49
15.61	11	63.27	40 33	14.87	56	86.07	54 06	14.02	8	1.67	4 08	12.04	28	6.05	10 14	15.61	43	22.16	25 46
15.61	25	66.27	41 54	15.61	23 28	93.15	59 07	9.53*	8	1.78	1 26	14.70	29	6.25	11 25	13.36	26 10	27.98	28 24

25 prec. + 85 sec. — 7′ 38″.

Area 54.

301—320				321—340				341—360				361—364			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.27?	26 18	29.71	27 43	15.10	22 14	77.14	38 00	15.61	24 20	4.40	30 54	15.61	26 29	32.00	33 46
15.61	34	33.29	24 14	12.90	51	85.22	30 54	15.27	24	5.18	37 32	14.54	27 0	38.79	33 49
14.87	35	33.48	28 42	11.36	55	85.97	30 14	13.32	33	7.10	33 51	14.87	1	38.94	30 55
11.60	39	34.21	24 57	13.92	23 0	87.03	33 06	13.23	34	7.28	39 51	14.98	3	39.48	35 04
14.07	43	35.13	25 03	14.07	2	87.58	31 57	13.59	38	8.17	32 24				
14.70	46	35.88	22 33	14.70	4	88.03	36 09	13.83	41	8.79	39 20				
9.94	48	36.31	21 18	13.45	5	88.10	32 37	14.59	52	11.19	35 50				
13.78	55	37.80	23 29	13.92	5	88.16	32 03	14.98	53	11.31	37 37				
12.28	27 3	39.47	25 50	10.83	10	89.20	37 16	14.54	25 3	13.60	33 57				
12.28	3	39.48	22 43	15.61	26	92.65	31 20	15.61	10	14.99	36 03				
15.61	11	41.19	22 46	13.23	33	94.13	36 36	14.54	15	16.10	39 49				
14.17	12	41.45	21 35	14.59	41	95.84	34 51	14.28	16	16.37	31 09				
14.02	21 29	67.51	32 13	14.98	41	95.91	37 16	13.23	21	17.47	37 08				
15.27	31	67.85	31 50	14.70	47	97.23	39 18	14.07	26	18.49	37 21				
14.28	36	68.99	30 47	12.11	52	98.23	31 56	14.81	28	18.87	38 23				
14.70	45	70.98	37 30	12.63	59	99.71	32 45	10.77	33	19.95	35 12				
14.02	48	71.54	36 57	14.07	24 9	1.90	32 23	14.17	55	24.82	37 37				
14.07	54	72.96	32 03	12.11	12	2.62	30 50	15.10	26 6	27.22	39 33				
14.02	22 6	75.50	36 42	14.43	15	3.19	39 30	13.92	18	29.74	38 19				
12.45	9	76.06	37 15	10.68	20	4.32	37 37	14.17	19	29.91	39 20				

25 prec. + 85 sec. — 7′ 38″.

Area 55. Centre for 1900: 11^h 30^m + 30° 0′.

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.26	26 46	57.81	23 21	11.31	29 49	97.56	28 43	15.73	31 23	18.07	27 55	14.48	28 9	75.87	31 20	14.72	30 59	12.73	34 46
14.76	27 4	61.69	25 24	13.59	56	99.20	24 21	14.76	29	19.45	28 00	15.02	17	77.64	34 07	14.62	31 0	13.07	35 22
15.28	9	62.82	27 25	11.98	30 5	1.04	21 45	15.73	34	20.49	26 00	15.73	18	77.76	39 30	14.76	1	13.29	37 36
15.39	11	63.23	21 30	15.02	7	1.54	27 05	14.97	40	21.83	29 10	13.02	26	79.61	39 17	14.29	1	13.29	31 12
13.80	15	64.06	23 05	14.86	14	3.09	20 21	15.73	57	25.51	25 33	14.97	39	82.35	37 41	15.73	5	14.04	39 42
15.39	26	66.53	29 10	11.37	16	3.47	26 16	12.52	32 8	27.88	26 45	15.28	29 0	86.88	35 28	11.16	14	16.14	36 41
15.07	42	69.97	29 40	14.97	17	3.71	23 33	11.37	10	28.30	26 33	15.28	29	93.19	39 24	15.28	18	16.88	36 00
14.72	47	71.03	20 46	15.02	18	3.98	22 56	14.76	12	28.66	20 54	15.73	33	94.10	38 11	14.86	26	18.63	31 33
13.84	50	71.69	28 59	15.23	24	5.33	26 40	15.73	26 49	58.49	33 53	13.59	33	94.21	33 24	15.02	35	20.69	35 45
14.24	28 14	76.94	25 38	10.84	34	7.32	25 00	14.06	54	59.61	32 58	12.83	52	98.20	36 14	15.73	44	22.62	37 44
15.28	16	77.46	26 38	14.86	46	10.01	27 34	15.73	27 0	60.79	30 11	14.76	57	99.36	34 45	15.12	51	24.21	35 32
10.90	25	79.21	25 31	14.52	51	11.12	21 53	15.28	1	61.08	37 55	15.02	30 1	0.23	32 01	14.76	52	24.42	30 18
14.62	25	79.22	21 08	14.52	52	11.40	23 58	15.23	5	61.89	36 44	13.84	3	0.71	37 57	14.38	32 32	33.09	33 53
11.36	25	79.30	27 25	15.73	54	11.76	29 07	[1])8.03	9	62.77	36 04	11.91	9	1.99	39 54	13.50	42	35.12	39 31
13.80	27	79.84	29 13	15.39	59	12.90	25 12	13.59	14	64.01	33 13	12.64	23	5.10	39 05	14.86	46	36.12	35 00
14.06	32	80.74	24 58	15.23	31 1	13.30	27 29	14.86	26	66.60	32 25	14.29	27	5.97	39 58	15.73	26 51	58.88	48 30
15.39	51	85.07	29 13	13.80	4	13.99	28 52	12.16	40	69.45	39 09	15.73	36	7.92	35 23	13.80	27 10	63.10	45 30
14.06	58	86.44	29 46	15.54	5	14.17	22 21	12.16	43	70.18	38 42	12.52	37	7.99	34 56	14.86	12	63.62	41 40
13.42	29 8	88.62	21 15	15.23	7	14.53	25 14	15.12	49	71.49	33 29	13.71	49	10.65	36 13	11.44	26	66.54	44 51
14.72	26	92.53	25 23	15.28	22	17.92	21 41	14.97	52	72.12	31 19	15.28	49	10.75	30 06	13.10	29	67.20	49 05

25 prec. + 79 sec. — 8′ 17″.

[1]) According to Potsdam Publ. **17** star color GW—; therefore Int. Phot.-Vis. = + 0·22 (see Gött. Akt. Teil B p. 29 and 41).
Our magn. is vis. magn. Harv. Ann. Vol. **54** + this correction.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$ $y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.59	28 4	74.84	45 31	15.73	27 52	72.34	59 26	15.39	30 6	1.25	1 22	15.54	29 57	99.34	18 16	15.02	29 30	93.48	28 01
13.59	4	74.85	45 20	13.02	28 5	75.05	50 10	14.86	9	1.98	8 44	11.44	30 4	0.85	13 12	14.15	34	94.46	20 30
15.23	15	77.23	46 36	14.29	15	77.18	55 20	14.97	11	2.47	8 46	14.76	5	1.09	10 58	14.38	46	96.99	28 11
14.76	18	77.82	45 38	15.73	16	77.51	55 35	15.23	12	2.57	1 26	14.86	8	1.64	18 34	14.24	51	98.06	24 44
14.62	21	78.45	40 45	14.52	19	78.01	52 06	14.72	18	4.00	6 39	14.02	10	2.25	12 15	14.24	51	98.12	29 04
14.15	27	79.77	44 58	14.62	34	81.44	53 32	15.23	20	4.37	5 09	14.29	11	2.37	11 12	14.48	54	98.62	27 12
14.02	29	80.28	49 10	13.93	36	81.89	54 12	12.52	31	6.63	2 02	13.59	13	2.83	15 54	14.02	55	98.92	26 08
13.10	32	80.84	44 29	13.42	39	82.54	50 21	14.29	36	7.72	8 48	15.73	17	3.58	18 28	15.73	59	99.81	27 08
11.37	42	83.14	40 42	15.45?	54	85.77	59 54	14.02	36	7.79	9 03	15.54	18	3.83	12 43	13.80	30 14	3.10	26 26
15.54	44	83.44	45 02	14.86	29 3	87.63	51 21	15.73	31 2	13.46	5 06	14.97	40	8.65	13 30	13.30	15	3.14	23 38
14.72	45	83.67	41 43	13.93	10	89.11	58 24	15.73	3	13.58	5 59	13.80	47	10.22	12 59	9.72*	23	4.90	29 14
15.39	54	85.59	42 09	12.90	12	89.51	57 41	14.38	9	14.89	1 56	15.02	53	11.35	13 08	15.54	26	5.59	23 54
13.42	29 10	89.23	41 22	12.34	12	89.57	57 28	13.10	18	16.95	1 50	15.73	57	12.31	11 44	14.62	46	9.96	25 21
13.02	13	89.82	47 50	15.02	26	92.59	50 28	15.73	18	16.97	9 12	15.73	31 0	12.94	11 28	13.80	49	10.51	24 11
15.73	29	93.29	48 35	14.86	32	93.84	52 56	15.73	33	20.16	1 11	14.76	14	15.89	15 25	12.98	31 1	13.21	23 27
12.16	38	95.17	49 22	15.23	41	95.93	57 09	15.39	36	20.69	7 46	15.73	15	16.24	14 51	15.23	33	19.95	24 23
14.86	41	95.97	47 03	15.28	43	96.38	50 51	14.72	57	25.41	6 38	15.28	18	16.82	11 13	15.39	45	22.69	28 05
10.82	30 11	2.37	44 17	13.38	48	97.29	55 38	14.24	32 0	25.85	6 40	15.23	29	19.14	19 34	12.34	51	23.83	21 16
14.76	15	3.25	42 02	9.47*	48	97.30	58 43	14.62	22	30.65	6 53	15.73	38	21.27	12 03	15.12	52	24.14	24 02
13.50	16	3.54	46 21	14.72	30 23	5.08	56 45	14.48	27	31.75	1 51	15.73	56	25.01	13 10	14.62	32 0	25.83	25 34
15.02	45	9.78	47 14	13.18	30	6.56	59 40	14.72	31	32.63	2 15	15.28	56	25.11	14 06	14.76	14	28.95	29 05
13.59	46	9.92	41 38	15.23	36	7.79	57 38	12.79	33	33.06	0 18	15.73	32 3	26.59	16 37	12.52	17	29.58	28 15
15.73	50	10.76	40 17	14.38	44	9.55	56 42	14.29	47	36.14	9 17	15.23	11	28.20	15 14	15.54	32	32.78	23 23
14.97	31 8	14.84	41 05	11.37	31 17	16.72	52 43	15.73	51	36.94	2 12	15.73	11	28.35	17 25	15.28	43	35.13	27 06
15.73	9	14.93	46 13	13.93	18	16.97	56 42	14.91	26 48	58.58	10 23	14.97	28	31.89	14 24	13.84	44	35.29	24 47
14.97	13	15.93	45 25	14.86	22	17.69	58 10	15.73	57	60.46	18 36	11.44	29	32.18	13 13	15.54	26 40	57.00	36 27
14.52	21	17.65	46 42	14.76	23	18.02	54 19	15.73	27 10	63.24	11 48	15.73	36	33.61	18 13	14.38	42	57.36	31 01
13.22	23	18.05	46 10	14.24	24	18.18	52 42	13.71	22	65.77	12 59	15.12	46	35.80	10 50	14.38	42	57.42	34 03
10.66*	24	18.12	49 00	12.71	24	18.23	55 48	14.86	22	65.97	15 33	13.84	26 41	57.09	29 37	13.38	53	59.68	33 57
13.93	27	18.84	40 45	11.46	24	18.25	55 34	15.23	49	71.65	17 35	13.02	52	59.46	27 33	15.02	58	60.78	30 44
15.54	28	19.10	49 02	15.54	30	19.40	50 34	14.76	50	71.88	14 32	13.50	54	60.01	29 42	14.20	58	60.93	30 00
14.86	33	20.20	41 58	13.50	45	22.67	59 59	14.52	51	72.13	15 35	15.39	57	60.56	29 02	15.73	59	61.13	33 18
12.52	59	25.86	42 08	15.02	48	23.43	54 46	14.29	52	72.25	19 14	11.62	27 10	63.41	25 41	13.84	27 1	61.55	37 50
14.76	32 10	28.26	46 52	14.86	32 6	27.30	51 36	13.59	54	72.69	15 23	9.94	11	63.55	24 41	14.38	2	61.78	36 40
14.86	11	28.39	41 44	15.54	29	32.31	52 31	15.73	59	73.78	12 10	14.29	17	64.88	20 22	14.67	4	62.05	30 13
13.10	12	28.68	44 56	15.73	30	32.49	52 29	9.99*	28 30	80.46	10 42	14.52	19	65.31	20 28	14.52	36	69.02	31 01
15.02	20	30.50	40 50	15.73	40	34.57	57 49	14.72	32	81.04	17 58	14.76	22	66.03	27 42	10.52	38	69.51	36 12
14.52	30	32.52	46 20	13.63	27 0	61.04	1 02	15.73	34	81.35	16 38	14.48	26	66.71	24 54	13.59	51	72.16	36 34
14.38	50	36.87	46 22	10.96	18	64.93	5 06	14.52	38	82.29	12 10	14.38	37	69.21	20 34	15.73	51	72.32	30 48
14.76	26 46	57.85	50 08	14.72	20	65.47	4 23	14.76	42	83.26	19 28	14.76	37	69.23	21 09	13.71	52	72.34	36 12
13.59	46	57.88	51 19	14.72	22	65.80	7 22	11.98	48	84.44	19 41	14.02	39	69.69	24 34	14.38	54	72.98	36 38
15.73	55	59.82	59 22	15.28	59	73.88	9 46	14.06	29 1	87.25	10 39	13.18	57	73.50	20 26	11.62	59	73.95	36 34
12.71	27 8	62.69	55 17	14.86	28 1	74.27	3 30	14.86	9	89.05	18 41	14.38	28 5	75.13	29 33	14.24	28 21	78.70	32 22
14.06	9	62.85	50 06	14.24	6	75.39	9 23	13.71	12	89.74	17 02	15.02	6	75.42	21 48	14.62	23	79.11	38 39
13.84	13	63.86	57 26	15.73	7	75.56	4 57	15.02	15	90.32	14 23	14.97	11	76.47	27 42	15.23	54	85.80	39 51
15.39	18	64.98	55 30	15.39	40	82.63	8 44	14.86	37	95.02	14 05	13.42	11	76.50	28 55	14.15	57	86.35	38 10
15.73	19	65.06	51 39	11.20	53	85.50	3 12	15.12	37	95.06	13 15	14.62	47	84.34	28 03	15.73	29 1	87.27	33 04
15.12	22	65.71	59 18	13.93	29 5	88.05	4 51	14.52	48	97.38	15 57	12.71	29 1	87.25	23 02	15.73	3	87.65	39 33
15.73	48	71.48	56 40	14.97	23	91.99	5 26	14.62	49	97.59	18 52	15.73	5	88.19	28 13	14.38	18	90.94	31 05
14.02	48	71.48	56 21	10.44	32	94.01	6 57	14.29	51	98.04	19 36	14.97	27	92.91	20 26	13.93	22	91.93	33 42

25 prec + 79 sec. — 8′ 17″.

351—360				361—367			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″
15.73	29 45	96.85	37 29	15.12	31 14	15.98	31 33
14.38	50	97.96	36 42	14.72	21	17.39	37 35
14.15	51	98.02	33 54	13.50	43	22.16	36 26
13.50	30 1	0.29	39 36	15.54	44	22.45	37 00
14.29	7	1.41	33 38	14.38	53	24.23	34 48
11.62	19	4.12	37 37	12.27	32 21	30.31	30 05
14.15	37	7.91	35 38	14.52	38	34.11	32 54
14.06	40	8.71	32 10				
14.38	54	11.65	38 05				
14.86	57	12.37	35 08				

25 prec. + 79 sec. — 8′ 17″.

11^h — 12^h Area 56. Centre for 1900: 11^h 58^m + 29° 40′. + 29°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.93	55 15	63.99	3 27	13.48	57 55	98.84	2 48	10.73	56 8	75.48	19 13	14.12	59 16	16.54	11 46	15.77	58 11	2.46	25 13
13.48	20	64.96	2 21	15.30	58 0	0.00	4 48	15.00	8	75.66	13 42	12.57	42	22.16	19 34	15.30	15	3.30	20 56
16.18	24	65.97	5 27	12.39	1	0.20	9 11	14.82	14	76.80	17 09	15.22	46	23.09	11 28	15.48	16	3.48	24 03
14.93	26	66.46	1 55	13.95	3	0.70	2 09	14.20	24	79.11	16 27	13.76	51	24.17	17 13	14.38	20	4.43	29 08
12.94	28	66.78	1 13	12.94	6	1.40	5 00	13.48	28	80.00	19 18	15.77	53	24.73	18 31	13.12	36	7.91	20 16
15.84	28	66.83	6 52	15.99	33	7.18	2 18	11.74	34	81.20	18 50	15.48	0 2	26.63	18 12	15.55	40	8.77	28 45
14.20	34	68.16	5 12	14.85	38	8.27	7 23	16.18	44	83.41	13 32	16.18	5	27.19	13 54	15.48	42	9.21	25 45
15.58	36	68.55	9 24	15.58	42	9.08	8 00	12.76	50	84.82	14 28	12.76	7	27.74	18 35	15.19	48	10.45	25 00
15.48	54	72.52	5 56	15.66	48	10.49	4 04	15.99	54	85.59	17 08	16.18	13	28.93	11 48	12.57	59 18	16.90	25 23
16.18	55	72.77	0 40	14.31	59 6	14.45	2 03	16.18	57	86.16	15 41	15.80	14	29.29	10 14	14.67	27	18.90	24 30
13.30	56 5	74.88	0 19	14.85	8	14.89	0 20	15.73	59	86.65	14 52	14.20	17	29.95	12 00	13.30	37	21.19	25 08
12.57	10	75.86	1 25	15.58	33	20.32	1 26	13.76	57 4	87.75	17 23	15.00	26	31.82	17 22	15.11	39	21.64	29 19
16.18	12	76.39	5 56	14.45	39	21.56	1 10	15.41	9	88.87	12 27	14.63	29	32.42	14 18	16.18	42	22.15	21 38
14.74	12	76.42	8 40	15.04	45	22.84	7 04	15.99	22	91.78	10 34	15.84	51	37.32	14 07	16.18	42	22.21	24 46
16.18	13	76.66	3 05	16.18	47	23.43	4 36	14.45	28	93.02	12 31	16.18	1 2	39.68	13 31	15.19	43	22.44	23 28
12.94	14	76.73	9 02	13.48	56	25.32	0 35	12.20	29	93.22	13 36	15.00	4	40.05	17 23	15.58	46	23.07	23 29
15.66	16	77.25	0 42	15.11	0 2	26.57	9 24	15.66	29	93.28	11 21	15.66	55 13	63.55	20 51	13.95	0 1	26.34	23 12
16.18	30	80.33	0 01	15.99	6	27.56	8 58	11.76	43	96.22	14 39	12.02	16	64.24	21 53	13.95	3	26.69	26 15
15.00	31	80.60	0 10	16.18	16	29.74	1 38	14.20	44	96.54	14 43	13.48	25	66.24	22 49	12.76	15	29.45	26 29
16.18	41	82.67	0 58	9.00	24	31.55	3 50	12.02	55	98.93	14 27	15.77	26	66.46	21 15	14.82	33	33.34	25 09
12.02	41	82.69	4 42	12.76	44	35.79	3 05	14.02	58 2	0.52	19 20	15.58	40	69.51	28 40	15.58	35	33.72	25 57
15.00	44	83.31	4 15	14.48	51	37.32	9 36	15.99	3	0.67	16 50	14.93	42	69.93	25 26	12.94	46	36.19	26 44
16.18	44	83.47	0 37	13.59	1 2	39.77	4 45	12.57	6	1.27	13 06	14.45	56 1	74.01	25 48	13.48	1 1	39.43	29 22
13.48	57 0	87.00	9 59	16.18	7	40.88	4 44	16.18	9	1.89	17 18	13.84	40	82.68	27 33	12.20	6	40.41	22 03
13.95	6	88.27	8 13	15.19	55 11	63.14	13 59	15.99	15	3.23	19 44	15.00	45	83.69	27 49	13.66	6	40.61	27 15
13.30	14	89.84	3 21	15.55	21	65.24	14 32	16.18	16	3.40	18 01	16.18	57 3	87.49	26 59	13.30	55 13	63.62	35 29
14.09	16	90.41	8 44	14.20	30	67.29	15 53	14.93	23	4.96	10 45	12.02	23	91.99	28 22	10.52	34	68.28	38 43
12.39	16	90.43	2 52	15.77	45	70.58	11 16	14.93	44	9.61	15 45	14.93	33	94.10	25 08	15.84	36	68.80	35 11
15.00	18	90.92	7 17	11.79	49	71.45	18 11	16.18	54	11.79	17 48	13.84	58 0	0.02	26 59	14.82	40	69.67	36 28
15.58	48	97.35	9 42	14.85	58	73.35	11 05	15.37	59 14	16.03	16 53	13.12	7	1.54	20 56	16.18	57	73.26	31 08

25 prec. + 77 sec. — 8′ 21″.

Area 56.

151—200				201—250				251—300				301—350				351—373			
Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$ $y-20'$	Int. magn.	α	x	$y-20'$	Int. magn.	α	x	$y-20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.99	56 0	73.81	32 29	12.94	56 14	76.99	47 03	14.74	56 36	81.89	55 42	16.18	57 20	91.51	2 30	16.18	58 24	5.20	16 31
14.93	5	74.98	34 52	15.22	29	80.26	49 07	12.65	42	83.17	50 12	13.66	25	92.40	2 53	16.18	25	5.50	15 04
13.30	12	76.48	31 10	12.57	38	82.15	44 02	12.94	50	84.80	57 38	14.02	41	95.80	0 23	8.83	26	5.64	14 12
14.48	19	78.10	36 02	16.18?	48	84.35	42 19	16.18	57 0	86.94	51 16	15.22	42	96.15	8 40	11.08	27	5.81	11 27
15.58	20	78.26	37 18	15.48	49	84.56	43 21	15.99	18	91.00	55 20	12.20	46	96.89	2 49	15.84	36	7.74	14 13
15.84	26	79.48	33 32	15.99	50	84.90	48 13	16.18	30	93.40	59 59	15.99	54	98.60	9 26	15.37	36	7.83	18 53
15.77	50	84.73	38 20	15.99	54	85.64	40 31	16.18	32	93.88	53 37	16.18	56	99.08	4 03	16.18	38	8.11	17 26
15.58	57 8	88.71	33 06	10.06	57 14	90.11	43 46	15.26	45	96.69	59 53	15.58	57	99.27	8 12	15.55	59 0	13.06	18 13
15.66	16	90.49	30 08	14.93	38	95.12	47 19	16.18	56	99.19	54 55	15.99	57	99.34	9 42	14.02	10	15.01	10 39
16.18	28	93.01	31 23	11.71	42	96.00	40 36	14.48	58 1	0.26	57 35	12.20	58 10	2.18	7 38	15.11	14	15.93	18 08
15.77	28	93.12	30 44	11.56	52	98.34	40 12	15.55	8	1.82	51 20	10.96	11	2.31	5 59	15.19	22	17.61	11 35
15.84	30	93.49	34 42	13.66	54	98.65	44 18	13.12	10	2.17	51 07	14.67	28	6.06	3 35	13.12	37	20.86	15 17
12.94	33	94.13	38 37	15.58	54	98.71	42 40	16.18	13	2.88	51 06	15.84	34	7.30	9 25	16.18	38	21.18	15 13
15.55	46	96.93	39 40	16.18	58 3	0.63	43 25	15.44	24	5.28	59 34	16.18	42	9.08	5 36	15.22	50	23.71	14 39
15.99	58 4	0.83	36 32	9.53*	12	2.50	40 41	12.94	59	12.87	58 40	13.12	44	9.55	6 38	15.84	53	24.48	16 44
14.38	4	0.91	34 32	15.66	14	3.09	47 20	13.84	59 11	15.40	53 20	15.84	53	11.50	3 21	16.18	0 4	26.70	19 07
15.99	5	1.18	33 01	15.69	21	4.48	49 27	15.77	14	16.05	50 31	16.18	56	12.02	7 17	15.37	13	28.65	17 52
11.04	7	1.42	34 15	13.48	22	4.68	43 24	12.39	15	16.33	55 18	12.20	59 13	15.70	9 08	13.30	33	33.14	12 29
14.82	10	2.19	32 54	16.18	22	4.78	49 42	12.76	22	17.79	50 58	15.84	28	19.15	2 38	14.02	57	38.14	15 23
14.48	10	2.21	39 21	13.80	57	12.44	49 40	15.00	35	20.68	51 29	16.18	32	19.83	3 48	13.26	1 0	38.84	10 10
15.66	28	6.04	35 25	14.31	59 8	14.86	46 31	14.38	36	20.76	56 30	15.41	36	20.72	1 45	15.22	13	41.61	14 09
13.76	31	6.68	33 03	13.66	14	16.12	44 03	15.73	39	21.41	54 56	15.77	0 5	26.96	1 15	14.93	13	41.66	19 30
15.84	36	7.74	31 04	15.73	14	16.13	42 22	14.56	40	21.67	58 15	14.38	11	28.29	5 28	16.18	14	41.99	19 42
15.22	38	8.31	38 40	15.58	25	18.40	47 40	15.48	43	22.26	51 56	15.73	13	28.76	3 15				
15.99	39	8.56	39 37	15.73	42	22.24	46 59	15.62	49	23.56	59 48	11.40	17	29.57	7 40				
14.27	41	8.92	35 04	15.48	45	22.78	48 48	15.30	54	24.68	53 45	16.18	21	30.45	3 42				
16.18	46	10.08	38 02	15.99	47	23.25	45 39	12.20	55	25.01	58 11	15.58	30	32.54	3 54				
16.18	59	12.73	32 10	15.55	54	24.74	47 27	15.04	0 1	26.20	54 58	15.58	31	32.73	0 55				
15.84	59 1	13.22	30 18	12.87	0 6	27.28	40 19	10.90	40	34.62	55 18	12.94	55 4	62.00	17 20				
14.02	5	14.05	36 02	13.12	17	29.71	42 49	14.20	56	38.23	50 37	15.84	18	65.10	19 17				
14.74	13	15.77	31 29	14.93	17	29.76	41 31	14.63	1 2	39.43	55 25	13.66	56	73.20	13 42				
13.91	24	18.22	34 35	15.55	18	30.05	49 00	15.58	5	40.12	55 18	15.55	58	73.59	15 20				
15.19	25	18.56	37 00	16.18	29	32.31	45 09	10.19	6	40.25	57 43	14.74	56 21	78.63	16 05				
15.04	32	20.08	38 40	11.09	44	35.56	48 42	10.95	55 17	64.79	4 07	16.18	22	78.82	17 45				
14.82	37	21.15	31 58	14.52	45	35.84	49 34	15.84	26	66.58	9 46	12.57	23	79.04	13 06				
15.66	43	22.36	36 04	16.18	1 1	39.34	40 18	15.11	40	69.73	4 34	15.84	45	83.90	15 07				
12.94	0 11	28.52	36 38	15.58	12	41.75	44 00	16.18	41	69.93	2 02	16.18	51	85.02	18 36				
13.48	31	32.90	36 05	13.84	13	41.93	41 13	15.58	50	71.95	6 57	14.82	57 3	87.77	19 09				
16.18	44	35.55	31 48	11.64	55 27	66.94	55 02	14.38	52	72.35	0 37	13.66	18	90.90	14 23				
14.63	49	36.70	33 33	11.71	36	68.83	56 41	15.99	56 10	76.26	4 39	13.66	23	91.92	16 08				
10.06*	50	36.92	32 29	15.58	39	69.50	56 08	14.02	17	77.70	7 41	15.22	35	94.54	13 01				
15.37	1 5	40.12	31 12	12.76	47	71.25	57 42	8.70*	36	81.94	6 26	14.45	40	95.72	13 22				
16.18	7	40.56	36 41	12.94	58	73.47	58 11	14.38	40	82.64	9 23	15.77	43	96.37	16 56				
16.18	55 32	67.91	43 44	13.30	56 6	75.22	53 51	14.48	46	83.95	7 12	12.94	51	98.08	16 44				
13.30	36	68.84	45 27	15.48	12	76.52	51 56	16.18	47	84.13	2 55	11.74	58 3	0.56	16 42				
8.86*	40	69.57	44 46	14.82	14	77.12	51 58	14.02	54	85.76	1 26	14.31	3	0.72	15 12				
16.18	53	72.36	42 38	16.18	21	78.54	52 37	15.66	58	86.62	1 49	13.84	9	1.99	10 25				
15.51	56 6	75.36	49 38	13.84	25	79.34	58 01	16.18	57 1	87.22	6 27	10.43	14	3.06	13 22				
16.18	9	75.86	46 06	13.95	32	80.94	51 17	16.18	18	90.88	1 40	16.18	15	3.20	15 22				
13.48	12	76.57	47 06	15.37	36	81.81	56 39	15.55	19	91.11	9 38	12.76	22	4.79	19 11				

25 prec. + 77 sec. — 8′ 21″.

Area 57. Centre for 1900: $13^h\ 4^m + 30^\circ\ 0'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$ / $y+0'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.46	0 54	59.39	28 41	13.44	6 35	33.82	25 54	13.83	6 45	35.80	33 10	15.72	6 24	31.33	42 49	13.99	5 22	17.82	56 04
11.89	54	59.51	20 21	14.09	42	35.18	23 08	14.48	0 48	58.37	41 35	15.08	34	33.33	47 07	15.08	28	18.97	53 00
14.83	57	60.25	22 18	8.93	44	35.73	24 07	14.20	54	59.63	43 22	15.92	37	34.07	45 35	15.46	29	19.20	56 26
15.39	1 8	62.65	28 02	14.26	47	36.40	23 44	15.08	59	60.77	44 19	16.26	41	35.02	46 59	9.16*	36	20.76	58 41
10.09	10	63.04	28 30	15.08	54	37.98	26 02	14.09	1 1	61.12	42 50	16.26	45	35.76	47 14	15.92	6 3	26.66	50 44
15.26	18	64.81	20 12	14.71	0 57	60.21	30 18	11.89	6	62.13	41 04	13.94	47	36.16	48 54	12.26	5	27.17	58 43
14.48	41	69.67	21 13	15.79	1 0	60.95	32 04	12.38	10	62.99	46 33	16.26	48	36.51	48 52	15.72	10	28.06	58 21
14.95	52	72.10	27 50	14.09	17	64.51	32 11	16.07	13	63.85	48 58	11.89	51	37.21	42 10	16.26	13	28.79	57 06
11.06	53	72.31	24 46	1)6.44	24	66.12	34 00	16.07	15	64.27	45 00	13.83	54	37.74	43 31	13.99	19	30.04	58 30
14.26	2 0	73.79	26 09	16.26	28	66.93	35 51	15.52	19	65.02	40 26	15.66	0 47	58.25	59 54	13.20	19	30.16	51 23
16.26	2	74.38	20 58	14.26	2 0	73.80	39 22	14.20	20	65.36	48 02	13.94	58	60.50	51 25	14.77	23	31.02	50 49
15.26	13	76.76	29 20	15.08	5	74.95	35 59	15.08	22	65.66	43 56	15.46	1 7	62.56	52 41	16.07	31	32.65	56 48
12.59	20	78.24	29 44	15.39	8	75.69	36 33	15.14	28	67.02	47 58	11.72	9	62.88	52 21	15.26	1 0	61.01	6 13
15.92	21	78.34	24 38	15.59	10	76.18	30 58	16.26	48	71.37	43 04	16.26	22	65.66	52 50	16.26	16	64.44	0 12
13.83	30	80.37	25 15	14.77	18	77.73	31 20	11.37	54	72.64	47 30	15.26	24	66.10	52 26	16.26	21	65.52	4 39
15.72	35	81.54	25 40	14.65	23	78.90	32 21	15.26	2 19	78.11	47 07	14.09	31	67.71	55 59	11.89	24	66.16	4 39
13.99	35	81.59	27 30	15.72?	37	81.94	35 11	14.48	34	81.34	46 20	11.48	33	68.18	57 34	15.39	40	69.79	4 57
16.26	36	81.75	28 39	16.26	51	85.01	30 23	13.83	42	83.13	42 08	15.08	52	72.32	52 43	16.26	52	72.21	6 51
14.83	39	82.36	23 58	13.99	55	85.89	30 18	15.92	43	83.32	44 29	12.46	59	73.82	56 08	16.07	58	73.69	9 17
13.11	41	82.75	25 38	13.02	3 18	90.86	33 45	15.08	44	83.46	44 41	13.20	2 0	74.02	52 44	16.26	2 4	74.88	0 34
13.73	51	84.97	20 42	15.59	21	91.42	33 11	14.65	54	85.61	48 41	14.37	3	74.72	55 48	16.26	8	75.71	2 05
15.92	3 0	86.92	23 07	14.20	21	91.52	32 55	15.39	3 7	88.44	48 07	15.14	5	75.00	50 36	16.26	21	78.54	4 38
15.14	3	87.53	21 25	13.25	22	91.83	37 57	16.26	13	89.89	42 55	12.67	32	81.02	58 17	14.83	33	81.22	6 49
16.26	3	87.64	26 12	15.39	33	94.11	37 49	14.54	17	90.60	48 13	15.14	42	83.10	58 25	15.26	43	83.38	6 48
10.89	10	89.10	27 00	14.65	36	94.83	32 22	12.67	26	92.70	42 37	13.11	44	83.43	52 41	9.66	57	86.36	0 22
14.95	16	90.50	29 02	15.92	55	98.81	34 36	14.95	34	94.40	44 31	14.95	44	83.48	55 27	12.67	3 24	92.20	8 57
14.37	17	90.58	22 32	14.26	56	99.18	31 37	14.65	35	94.55	41 42	16.07	45	83.67	58 38	15.26	32	93.98	7 07
14.48	28	92.95	21 25	15.72	59	99.69	35 43	15.46	38	95.32	45 50	9.62*	54	85.64	58 58	16.26	34	94.45	7 20
15.39	34	94.39	26 40	13.68	4 7	1.55	34 27	12.46	42	96.20	42 27	14.95	3 13	89.77	59 36	13.11	35	94.62	4 18
15.59	46	96.98	20 02	13.02	21	4.65	31 53	14.54	53	98.46	46 49	16.07	13	89.89	52 55	11.72	37	94.94	1 11
15.92	58	99.52	26 11	15.26	52	11.23	31 23	16.26	54	98.71	48 32	14.83	16	90.52	57 36	12.26	38	95.32	8 49
15.08	4 12	2.53	26 01	13.99	53	11.42	34 00	16.26	55	98.84	49 07	13.11	17	90.58	54 20	15.02	42	96.09	0 16
14.83	35	7.72	25 46	16.26	56	12.21	36 00	16.07	4 0	99.91	42 31	13.02	18	90.93	51 42	13.25	49	97.55	4 33
15.92	42	9.08	24 12	12.89	57	12.46	36 31	13.34	6	1.25	46 42	16.26	23	91.95	54 35	16.26	4 14	2.92	2 30
13.11	43	9.37	25 05	15.72	5 7	14.47	38 16	15.08	13	2.72	48 28	13.99	24	92.14	57 26	15.72	25	5.39	8 56
14.31	48	10.49	29 57	16.07	17	16.65	33 57	14.95	33	7.09	47 02	15.39	32	94.04	59 42	15.26	45	9.73	3 31
13.11	51	11.04	26 10	15.72	24	18.20	36 52	14.54	34	7.48	41 07	15.39	41	95.90	52 37	15.59	48	10.33	1 46
14.77	5 7	14.60	24 58	13.58	24	18.27	31 57	14.83	37	8.00	48 53	14.26	42	95.99	50 35	14.83	5 4	13.94	1 28
14.37	10	15.13	28 38	13.02	32	20.07	32 06	16.26	46	9.94	43 23	12.67	50	97.83	51 47	15.14	21	17.61	8 23
15.59	10	15.18	23 14	14.65	6 2	26.45	35 00	15.26	5 12	15.63	48 34	15.92?	50	97.86	52 44	11.89	26	18.71	3 46
9.39	12	15.57	20 15	15.72	6	27.39	34 59	11.70	16	16.58	40 11	14.26	51	98.01	51 28	14.65	46	22.90	1 30
12.80	16	16.54	25 34	11.21	6	27.49	31 14	15.79	23	18.03	47 43	8.83*	52	98.20	55 11	13.11	49	23.65	5 52
14.77	16	16.57	26 31	14.77	13	28.98	30 32	14.48	26	18.59	43 12	14.48	53	98.41	58 08	15.39	56	25.05	6 00
15.14	17	16.76	22 35	14.48	14	29.23	31 53	13.68	31	19.71	45 25	14.83	4 2	0.52	58 11	15.72	6 0	26.07	3 44
16.26	27	18.86	24 34	15.59	18	29.95	33 04	13.99	39	21.47	46 00	16.26	31	6.67	54 02	16.07	6	27.16	9 26
14.09	49	23.73	23 52	11.50	24	31.32	39 02	16.07	43	22.29	46 11	16.26	31	6.76	58 54	16.26	8	27.71	5 45
12.46	6 6	27.55	26 04	15.66	24	31.36	39 58	14.37	54	24.70	40 39	14.26	52	11.35	55 41	14.26	16	29.31	8 21
16.07	22	31.02	26 11	15.59	30	32.52	37 36	16.26	58	25.69	41 12	15.92	5 10	15.12	50 37	11.89	19	30.15	6 09
14.65	25	31.48	25 12	15.92	35	33.76	31 13	15.79	6 22	30.86	42 44	15.46	14	16.12	58 26	15.14	25	31.37	1 34
16.26	29	32.51	21 54	12.89	40	34.74	35 16	16.26	23	31.08	47 14	11.89	17	16.78	51 20	11.89	29	32.20	6 52

1) Vis. magn. from Harv. Ann. **50** reduced to phot. magn. by Harv. Ann. **71**, I p. 7.

25 prec. + 72 sec. — 8' 2".

251—290				291—330				331—370				371—405			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.83	6 31	32.72	6 56	14.26	4 23	5.06	16 33	15.14	3 34	94.50	28 09	16.27	3 19	91.24	34 34
12.07	43	35.22	0 24	13.78	25	5.49	10 07	14.54	43	96.38	21 53	11.72	41	95.82	34 45
13.94	44	35.52	7 59	15.26	48	10.44	10 26	14.95	46	97.01	25 57	16.26	47	97.13	30 42
15.26	51	37.04	7 36	16.07	5 22	17.78	18 32	15.79	52	98.34	25 41	12.89	48	97.39	38 53
14.65	55	37.91	5 29	14.83	28	18.91	11 30	12.67	4 1	0.15	23 31	14.95	4 3	0.61	39 32
14.65	56	37.98	2 14	15.92	29	19.13	16 00	12.26	11	2.30	28 33	14.95	8	1.80	38 44
14.20	0 46	58.15	13 43	12.46	43	22.18	14 41	12.67	35	7.62	20 42	15.92	27	5.78	30 25
16.26	50	58.95	14 15	14.65	43	22.22	18 59	14.65	41	8.94	23 35	14.83	28	6.05	35 40
12.67	1 3	61.83	11 49	15.14	6 4	26.81	13 51	15.08	46	10.00	23 24	15.14	39	8.35	39 44
15.26	13	63.95	18 38	15.79	14	28.97	17 35	14.20	47	10.09	25 42	15.92	42	9.12	36 22
16.07	16	64.68	10 43	15.02	17	29.59	10 12	13.99	52	11.23	28 56	14.65	43	9.36	38 29
15.14	21	65.57	17 14	13.44	17	29.68	13 28	16.26	54	11.56	25 24	15.92	47	10.03	37 52
14.83	30	67.63	18 10	15.79	22	30.56	11 21	14.83	56	12.08	23 46	16.26	47	10.11	38 59
13.99	32	68.02	15 47	14.54	53	37.45	10 37	16.26	56	12.14	21 20	16.26	47	10.15	38 26
16.07	33	68.26	19 23	13.11	0 47	58.38	21 21	11.89	59	12.73	26 02	12.67	53	11.40	33 08
13.44	38	69.35	14 52	13.83	47	58.40	22 55	14.37	5 7	14.52	27 00	16.26	5 18	16.83	34 36
15.26	48	71.44	12 27	16.07	51	59.20	20 13	15.79	13	15.74	20 04	13.73	27	18.82	32 57
11.89	2 0	74.06	18 52	15.08	1 11	63.59	29 38	16.26	20	17.15	25 23	14.65	30	19.39	32 37
13.25	4	75.06	16 14	13.02	14	64.20	23 04	11.89	27	18.86	28 06	15.39	48	23.30	33 27
15.26	6	75.32	15 16	12.46	15	64.38	23 39	15.39	41	21.76	26 35	13.20	58	25.42	38 14
15.39	10	76.31	15 44	12.46	29	67.35	20 10	16.26	47	23.11	24 45	13.34	59	25.68	31 00
16.26	15	77.39	11 33	14.09	32	67.98	29 52	16.26	53	24.40	25 45	15.14	6 6	27.09	37 28
15.14	24	79.25	18 45	12.46	34	68.52	25 03	13.94	6 0	25.94	20 59	16.26	9	27.80	35 50
14.37	42	83.11	10 42	16.07	47	71.35	21 22	12.89	10	28.02	21 32	15.79	10	27.99	39 59
14.54	42	83.23	15 50	15.59	54	72.93	28 44	13.83	30	32.31	28 14	12.89	14	28.83	30 54
12.67	46	84.13	17 13	12.26	56	73.20	25 54	10.35	31	32.48	20 36	11.38	19	29.99	39 44
13.94	51	85.07	14 09	16.26	56	73.29	26 36	14.37	44	35.32	23 22	14.77	25	31.19	31 54
14.65	55	85.89	11 03	11.68	2 14	77.04	29 56	15.14	47	36.10	24 52	15.92	25	31.29	38 33
14.26	58	86.59	18 20	15.72	17	77.78	28 38	16.26	48	36.24	22 09	15.26	28	31.94	34 52
15.92	3 5	88.07	13 39	15.92	30	80.67	21 46	15.46	51	36.84	21 55	12.67	37	33.77	34 01
15.14	6	88.40	12 43	15.39	37	82.05	21 08	11.65	53	37.23	27 22	16.07	38	34.04	38 05
15.85	14	90.00	10 15	14.83	39	82.59	24 20	15.72	0 50	59.15	33 45	16.07	47	35.92	35 24
15.14	24	92.29	12 56	16.26	39	82.62	25 25	15.08	51	59.28	39 59	15.39	51	36.73	39 28
13.34	27	92.79	17 06	14.77	42	83.10	22 32	11.09	1 15	64.44	33 38	16.26	53	37.32	30 51
16.26	30	93.59	13 07	14.20	49	84.64	25 23	15.92	26	66.86	32 59	15.92	56	37.79	32 21
15.59	52	98.33	11 45	14.95	52	85.41	21 04	15.46	45	70.86	33 30				
15.26	56	99.17	10 34	13.34	3 3	87.65	22 42	13.68	50	71.94	33 07				
14.37	4 3	0.74	15 24	14.77	10	89.16	20 38	15.46	2 2	74.52	34 52				
16.26	3	0.74	18 03	13.25	13	89.90	20 54	13.25	40	82.82	37 15				
14.77	12	2.55	12 09	15.59	34	94.29	23 20	14.65	3 2	87.53	34 08				

25 prec. + 71 sec. — 8′ 2″.

Area 58. Centre for 1900: $14^h\ 0^m + 29^\circ\ 40'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′	Int. magn.	α	x	y+40′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.06	57 39	69.15	8 30	15.76	1 2	13.48	1 19	13.89	59 29	93.28	14 07	15.88	59 26	92.51	24 10	14.33	0 14	3.03	36 03
12.07	45	70.42	7 08	15.49	2	13.51	1 09	12.07	31	93.60	18 35	15.00	27	92.73	27 40	15.23	17	3.80	32 05
12.07	59	73.48	0 47	15.76	2	13.53	0 43	14.65	38	95.10	12 58	11.06	39	95.47	22 36	12.21	21	4.56	38 37
12.79	58 13	76.52	0 21	15.09	4	13.90	2 23	12.79	40	95.63	16 04	14.78	42	96.18	23 01	10.11	25	5.37	31 06
15.33	15	76.99	4 15	15.76	4	13.90	1 18	15.33	0 0	99.98	18 58	14.06	54	98.71	22 49	14.57	27	5.80	37 19
15.19	18	77.74	5 49	15.88	4	13.97	0 58	15.49	0	0.08	19 16	14.86	0 1	0.18	23 56	14.17	34	7.41	35 25
13.89	34	81.19	1 49	15.09	5	14.18	2 48	15.09	12	2.55	11 04	13.79	3	0.59	26 29	16.22	42	9.13	31 58
16.22	43	83.11	9 33	16.22	5	14.28	0 55	16.03	13	2.88	18 42	15.09	4	0.82	24 09	12.07	44	9.46	37 25
14.52	44	83.50	0 34	15.43	6	14.36	1 37	16.03	23	4.93	17 22	14.36	11	2.30	28 17	13.40	47	10.31	33 25
14.65	47	84.08	8 22	16.03	7	14.70	1 44	14.25	31	6.82	10 51	15.49	31	6.71	22 45	15.33	53	11.57	39 29
14.44	47	84.14	8 04	15.43	7	14.72	0 29	14.29	34	7.50	19 54	14.57	1 6	14.42	23 31	14.36	1 8	14.79	37 00
13.50	49	84.42	5 29	16.22	8	14.79	0 08	16.22	47	10.20	12 09	15.76	13	15.94	26 09	14.52	29	19.45	31 40
11.14	56	85.95	6 38	14.44	9	15.13	1 41	16.22	1 1	13.24	15 24	14.25	16	16.44	21 26	14.44	32	20.10	37 10
15.88	59 7	88.48	0 07	16.22	16	16.52	0 52	15.49	1	13.30	17 21	15.33	28	19.23	24 04	16.22	33	20.26	34 32
15.88	26	92.65	3 15	15.49	16	16.66	3 07	12.21	2	13.43	18 27	14.14	31	19.80	21 56	16.22	41	21.89	32 31
14.78	36	94.69	0 32	15.59	19	17.35	4 25	14.17	8	14.86	15 41	14.86	35	20.78	26 30	16.22	42	22.16	31 07
15.43	37	94.96	0 14	13.56	22	17.81	8 38	13.79	14	16.11	13 28	13.40	36	20.84	24 50	14.95	2 21	30.76	31 04
15.23	39	95.40	5 09	15.88	24	18.29	4 04	13.72	16	16.52	13 31	16.22	36	20.97	20 19	14.65	41	34.93	34 18
15.33	40	95.57	7 32	14.25	24	18.37	2 12	16.22	17	16.86	13 47	15.76	39	21.62	21 15	14.52	42	35.23	35 16
16.22	43	96.37	7 15	14.86	35	20.86	8 46	16.22	24	18.29	16 42	16.22	45	22.78	20 22	16.03	47	36.21	35 41
15.71	56	99.06	7 47	14.44	38	21.31	9 52	15.33	2 9	28.03	13 12	12.50	46	23.07	27 26	15.43	50	36.93	34 57
16.22	57	99.26	1 33	14.36	39	21.72	1 41	15.33	13	28.99	18 08	15.43	55	25.00	20 03	13.56	57 1	61.17	43 03
16.22	0 8	1.75	2 31	14.95	41	22.09	8 02	14.78	22	30.94	10 32	10.93	56	25.24	21 51	14.44	4	61.90	48 20
14.57	21	4.65	8 29	12.79	46	23.15	6 03	14.57	22	31.05	17 49	16.22	2 4	27.10	28 52	16.03	10	63.21	45 24
16.03	24	5.15	4 05	14.95	50	23.93	6 35	13.24	28	32.30	13 26	11.14	13	28.95	20 58	15.76	14	63.87	45 17
16.22	25	5.53	0 08	12.94	2 10	28.42	3 43	11.29	28	32.39	19 18	16.22	14	29.24	22 46	15.59	18	64.77	46 35
16.03	28	6.20	1 30	14.44	17	29.86	7 15	15.71	30	32.68	17 58	12.00	31	32.94	23 05	14.52	18	64.92	48 37
14.73	35	7.68	4 46	15.43	34	33.73	4 43	14.65	41	35.02	13 06	15.43	38	34.38	21 30	14.44	23	65.83	45 47
15.43	44	9.69	1 33	14.06	45	36.04	5 39	15.14	45	36.09	10 02	12.35	42	35.25	28 09	16.22	29	67.27	43 36
16.22	46	9.99	0 47	15.49	45	36.07	9 26	16.22	46	36.20	16 20	14.06	52	37.55	28 55	11.78	33	68.10	47 30
15.49	48	10.49	1 02	14.78	46	36.28	6 50	14.95	53	37.68	11 08	14.57	57 14	63.87	35 25	12.50	35	68.51	41 25
16.22	48	10.52	1 34	12.64	50	37.04	5 12	16.22	56 56	60.04	26 53	14.52	17	64.54	37 50	13.89	40	69.65	44 34
14.65	49	10.66	4 55	15.33	50	37.19	7 58	16.22	57 0	60.70	21 08	14.06	29	67.27	36 32	15.76	45	70.73	47 48
16.22	49	10.71	1 17	15.49	59	39.03	9 01	15.59	5	61.88	26 48	16.22	37	68.93	39 11	13.56	47	71.19	49 19
15.23	50	10.92	1 49	16.22	57 37	68.90	11 15	15.19	18	64.65	26 04	15.88	47	71.01	30 54	16.22	52	72.30	48 10
16.22	50	10.98	0 35	15.09	40	69.44	15 01	15.88	22	65.59	26 32	13.34	58 5	74.93	39 59	13.66	55	72.83	45 43
16.22	51	11.14	0 05	15.33	44	70.37	15 43	12.50	27	66.63	28 04	15.59	10	76.09	32 07	15.88	58 10	76.16	42 23
16.22	52	11.40	0 40	16.22	44	70.43	19 24	14.14	27	66.63	23 28	14.78	15	77.19	31 32	15.71	35	81.57	44 22
16.22	54	11.73	1 17	16.22	48	71.16	12 13	16.22	33	68.00	22 17	12.79	26	79.60	37 53	15.59	47	84.21	49 38
16.22	54	11.82	1 12	14.03	56	73.01	10 44	15.88	42	70.04	29 06	15.04	58	86.52	39 58	15.33	59 2	87.33	49 00
16.22	54	11.91	0 49	15.23	58 3	74.50	17 31	16.22	53	72.36	29 57	12.79	59 0	86.91	38 05	16.22	7	88.46	45 10
15.43	55	12.09	0 52	16.22	11	76.15	11 04	15.49	58 9	75.74	22 15	15.43	15	90.18	38 35	14.06	26	92.51	43 30
16.22	56	12.29	0 27	12.07	12	76.46	14 19	15.43	20	78.26	29 05	15.33	15	90.29	39 05	14.44	33	94.17	40 47
15.59	58	12.58	2 03	15.19	17	77.51	17 30	15.49	22	78.64	20 46	14.78	19	91.15	39 53	16.22	41	95.86	46 31
16.22	58	12.62	0 57	16.22	18	77.66	17 38	14.86	24	79.15	29 38	11.19	25	92.39	34 12	16.22	49	97.65	46 46
16.22	58	12.77	1 15	14.17	30	80.28	11 38	14.52	25	79.39	23 03	13.40	29	93.29	33 55	15.00	50	97.79	45 28
15.59	1 0	13.03	1 28	14.25	32	80.82	10 43	12.79	29	80.22	24 12	14.06	38	95.21	31 20	14.52	58	99.66	43 01
15.88	0	13.19	1 47	12.44	45	83.68	10 31	13.89	39	82.42	29 36	9.35*	59	99.68	37 22	14.52	0 6	1.36	44 17
16.22	1	13.32	0 48	14.06	52	85.19	17 22	16.22	59 4	87.84	28 17	14.95	0 0	0.04	39 36	15.76	20	4.32	42 22
15.71	2	13.47	0 00	12.50	59 22	91.78	10 22	14.52	21	91.46	20 18	15.49	5	1.12	34 25	10.25	24	5.28	45 04

25 prec. + 67 sec. — 7′ 14″.

251—290				291—330				331—370				371—410				411—414			
Int. magn.	*α*	*x*	*y*+40′	Int. magn.	*α*	*x*	*y*+40′ / *y*—20′	Int. magn.	*α*	*x*	*y*—20′	Int. magn.	*α*	*x*	*y*—20′	Int. magn.	*α*	*x*	*y*—20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.19	1 6	14.29	46 46	12.35	0 18	3.93	55 20	16.22	58 58	86.56	1 48	15.59	57 46	71.02	15 23	14.52	2 48	36.24	19 59
14.57	15	16.26	45 58	11.74	22	4.73	54 50	14.06	59 4	87.78	7 07	13.09	49	71.65	19 28	13.99	51	36.98	17 16
16.22	22	17.75	47 21	16.22	32	6.93	57 25	16.22	4	87.98	8 26	14.14	52	72.45	12 58	15.71	52	37.20	17 36
15.09	33	20.08	41 00	11.27	40	8.64	53 00	14.52	11	89.37	0 47	15.76	53	72.59	17 59	14.73	3 2	39.27	11 54
14.36	37	20.98	43 51	16.22	40	8.73	53 18	15.00	25	92.49	1 27	16.22	58 6	75.30	14 14				
15.59	38	21.36	42 52	13.56	52	11.28	56 59	15.14	36	94.87	9 28	16.22	20	78.36	19 29				
14.86	44	22.63	49 42	15.09	54	11.75	54 35	13.40	38	95.17	8 46	16.22	29	80.37	14 38				
13.09	56	25.15	42 07	12.50	56	12.22	53 03	12.79	40	95.71	0 57	14.65	29	80.39	13 44				
16.03	56	25.28	43 10	14.36	1 0	12.98	56 06	15.59	42	96.16	2 08	16.03	39	82.51	17 18				
16.22	2 12	28.64	47 50	16.22	8	14.70	57 50	16.22	44	96.65	6 08	12.35	47	84.20	18 59				
15.33	13	28.95	43 00	14.36	13	15.81	55 14	14.44	59	99.77	1 38	16.22	49	84.70	18 32				
16.22	24	31.28	42 52	13.24	23	18.08	57 52	14.57	0 4	0.78	3 42	14.78	54	85.78	18 15				
15.71	25	31.45	44 40	16.22	24	18.23	51 09	16.22	11	2.48	6 56	16.22	59 7	88.64	14 10				
16.22	32	33.06	48 27	16.22	2 0	25.97	57 26	16.03	14	3.09	1 39	15.59	19	91.10	19 23				
15.33	34	33.35	45 00	14.44	2	26.47	51 14	13.09	23	5.07	6 50	12.64	19	91.19	16 03				
9.93*	35	33.72	44 49	16.22	4	26.92	54 45	16.22	44	9.58	3 06	12.50	29	93.35	17 58				
16.22	57 4	61.97	53 55	15.33	8	27.83	52 44	14.73	47	10.15	6 36	14.73	31	93.66	17 27				
13.40	5	62.07	55 24	13.82	33	33.21	53 32	15.65	57	12.38	9 52	15.19	48	97.35	13 40				
15.43	8	62.66	59 02	14.61	43	35.22	50 20	10.26	1 4	13.76	2 19	15.76	51	98.13	14 11				
16.22	27	66.87	50 02	10.81	3 1	39.22	53 48	16.22	7	14.40	5 07	12.35	57	99.30	17 45				
14.95	30	67.54	55 57	13.99	3	39.74	56 04	16.22	13	15.72	9 16	13.09	0 6	1.28	10 39				
15.23	39	69.50	51 02	15.49	56 56	60.23	6 39	14.44	15	16.20	1 44	16.03	15	3.28	18 30				
12.35	58 12	76.59	59 30	12.79	57 4	61.94	8 25	15.19	16	16.51	0 28	12.94	17	3.67	13 43				
15.19	13	76.75	52 50	15.76	7	62.68	3 22	10.88	26	18.66	6 56	13.24	22	4.77	18 06				
16.22	16	77.51	58 25	12.21	18	65.07	2 31	12.94	28	19.09	9 20	12.79	29	6.23	11 24				
12.35	24	79.12	53 33	16.22	27	66.83	5 03	14.95	33	20.15	5 21	14.25	30	6.52	16 01				
16.22	24	79.20	56 52	14.36	36	68.95	8 13	14.14	54	24.74	9 35	13.03	33	7.03	10 04				
16.03	26	79.74	51 42	14.86	47	71.15	1 59	15.33	2 4	26.82	7 12	14.57	38	8.12	14 01				
11.81	46	84.07	53 04	16.22	57	73.32	5 30	16.22	5	27.03	7 54	15.43	39	8.41	15 16				
13.99	48	84.48	54 39	13.09	58 4	74.85	6 14	12.35	18	29.82	9 26	15.88	39	8.41	14 53				
16.22	59 1	87.14	59 01	13.09	14	77.13	8 48	14.91	24	31.12	9 46	11.59	1 7	14.57	11 04				
14.95	12	89.71	52 31	16.22	17	77.81	5 47	15.59	30	32.43	2 24	15.09	37	21.00	17 53				
15.00	13	89.80	52 17	15.19	23	79.02	3 07	13.79	57	38.39	9 23	15.88	39	21.29	10 43				
14.14	22	91.67	54 47	16.22	32	81.03	6 55	15.43	3 3	39.58	3 45	16.03	2 2	26.33	17 32				
13.96	22	91.70	58 24	16.03	33	81.08	2 37	13.79	56 59	60.84	12 51	16.03	4	26.67	13 47				
14.78	28	93.14	50 41	13.72	36	81.72	5 06	16.22	57 14	64.07	12 16	13.72	7	27.38	13 22				
16.22	32	93.95	54 36	15.88	36	81.83	0 37	16.03	17	64.75	13 46	16.22	7	27.45	18 04				
12.94	42	96.10	55 41	11.10	41	82.93	4 46	15.23	22	65.80	17 25	16.22	15	29.13	14 37				
12.79	49	97.62	50 17	16.22	42	83.20	7 33	15.76	34	68.40	11 05	15.23	17	29.55	19 18				
15.43	53	98.40	59 48	15.09	48	84.40	3 17	15.33	42	70.11	13 09	15.33	21	30.39	14 21				

25 prec. + 67 sec. — 7′ 14″.

Area 59. Centre for 1900: $15^h\ 2^m + 29^\circ\ 50'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.32	59 0	60.66	12 27	16.02	2 41	8.92	17 24	15.19	1 3	87.63	22 19	12.34	4 47	36.39	29 44	15.41	2 18	3.91	37 14
16.17	5	61.90	14 29	15.32	3 6	14.38	17 57	15.45	25	92.29	26 29	13.14	57	38.53	21 49	16.36	19	4.22	39 15
16.02	7	62.29	19 07	16.36	8	14.90	17 23	11.38	31	93.77	29 38	15.19	58 57	60.13	35 24	15.88	21	4.52	38 37
14.76	16	64.12	17 37	16.36	16	16.63	16 31	16.36	38	95.19	28 37	15.54	59	60.56	36 05	16.36	29	6.35	36 27
15.02	16	64.22	17 24	16.36	22	17.83	12 21	14.81	40	95.69	23 29	13.97	59	60.65	32 02	16.36	32	6.87	39 02
15.02	19	64.88	15 34	15.10	25	18.50	16 32	14.36	40	95.72	22 59	16.02	59 12	63.48	36 10	13.51	33	7.09	30 48
16.36	21	65.39	18 28	14.60	28	19.11	12 00	15.10	51	98.04	21 26	16.36	18	64.83	35 54	16.36	52	11.35	32 46
16.36	21	65.40	14 40	15.88	41	22.13	16 53	10.01	51	98.09	23 12	16.36	19	65.00	35 59	16.36	54	11.76	36 06
15.10?	34	68.26	19 03	13.14	44	22.65	17 29	14.36	2 4	0.81	25 24	14.56	20	65.23	36 25	16.02	54	11.76	32 35
14.89	35	68.31	12 04	14.01	48	23.56	11 13	15.19	9	1.94	25 36	16.36	32	67.76	33 09	13.70	58	12.57	35 51
14.81	35	68.44	10 20	16.17	58	25.66	10 46	14.40	11	2.39	27 47	12.23	34	68.32	39 36	15.92	3 4	13.97	34 23
13.51	40	69.38	19 29	14.68	4 3	26.92	18 21	8.75*	15	3.27	22 13	16.02	43	70.20	38 52	16.36	11	15.41	33 36
16.36	46	70.80	12 22	14.76	6	27.47	10 24	15.28	16	3.50	20 26	16.17	43	70.26	33 18	15.19	17	16.78	34 42
15.02	51	71.95	10 57	14.28	27	32.05	10 25	15.68	22	4.74	27 05	14.81	43	70.26	38 51	15.68	29	19.33	36 13
16.36	52	72.03	18 53	14.01	29	32.48	11 20	15.32	30	6.53	25 09	15.68	45	70.73	34 18	13.62	31	19.75	36 40
15.23	54	72.53	15 56	16.36	33	33.38	18 36	16.36	44	9.52	29 58	15.68	48	71.31	37 07	15.10	37	21.06	37 57
13.97	55	72.68	12 13	15.64	39	34.70	11 44	16.17	46	10.10	24 41	15.54	0 9	75.77	32 34	13.14	45	22.79	37 09
13.44	57	73.09	16 51	15.78	49	36.85	13 37	15.88	3 7	14.55	26 46	15.10	9	75.84	30 14	10.74	50	23.98	32 11
15.23	58	73.28	15 49	15.54	49	36.93	12 40	15.78	15	16.41	24 54	15.28	9	75.86	30 38	12.95	56	25.16	33 27
15.92	0 2	74.31	13 27	15.64	58	38.93	10 47	15.02	20	17.40	22 19	13.51	12	76.56	32 08	15.02	4 2	26.52	38 46
15.45	6	75.24	12 17	16.02	58 54	59.56	24 31	16.36	21	17.60	27 08	16.36	15	77.26	39 58	13.81	4	27.04	30 43
16.36	11	76.14	18 23	15.92	57	60.07	24 51	15.54	23	18.12	27 57	15.02	19	77.95	36 45	14.60	7	27.51	35 12
13.81	18	77.83	18 58	14.28	57	60.09	23 22	15.88	25	18.61	22 11	15.32	21	78.44	37 46	15.28	15	29.32	39 50
11.93	29	80.07	10 47	15.45?	58	60.29	20 26	15.23	26	18.72	21 49	14.56	21	78.55	34 44	13.66	18	30.02	39 44
15.54	29	80.08	15 50	15.78	59 0	60.78	29 05	11.78	34	20.46	29 23	15.19	30	80.40	32 46	16.17	22	30.90	38 32
16.02	43	83.11	13 48	16.36	5	61.88	24 04	14.89	35	20.68	22 25	16.36	32	80.97	39 05	15.02	28	32.16	32 43
16.17	46	83.76	11 04	15.10	10	62.92	26 13	16.36	41	21.99	22 31	15.68	40	82.67	37 23	16.36	36	33.84	35 49
15.88	55	85.90	19 30	15.54	13	63.53	29 32	15.10	44	22.67	27 49	15.78	48	84.34	30 02	14.68	37	34.14	36 23
10.97	56	86.01	15 56	15.32	23	65.82	20 52	16.17	49	23.80	29 58	15.32	53	85.43	32 02	14.68	38	34.41	36 14
15.88	1 1	87.05	14 24	14.28	24	66.11	22 59	14.72	52	24.42	29 40	11.55	1 4	87.92	37 06	16.36	43	35.38	32 41
16.36	4	87.84	19 44	16.36	28	66.94	25 22	16.02	58	25.78	21 42	14.40	5	88.06	37 27	15.68	43	35.49	37 02
15.54	5	88.01	14 40	12.95	36	68.57	21 44	15.68	4 2	26.53	25 18	15.78	8	88.74	30 56	14.28	44	35.54	37 10
15.64	9	88.77	12 52	15.68	36	68.70	21 23	16.36	2	26.55	24 40	15.10	11	89.28	39 33	13.70	51	37.27	37 50
14.68	16	90.34	15 14	15.32	37	68.93	20 45	14.81	6	27.47	25 36	15.32	11	89.38	35 56	16.36	55	38.02	30 57
15.64	20	91.25	12 20	15.92	40	69.43	27 59	13.62	6	27.47	20 59	15.54	19	91.03	35 54	16.36	58	38.60	36 30
15.68	25	92.43	18 34	13.97	44	70.39	21 45	15.64	8	27.96	29 04	15.92	19	91.07	39 44	15.92	58 55	59.79	42 01
15.68	33	94.03	14 07	15.92	52	72.19	21 01	15.68	9	28.18	21 14	15.92	29	93.33	34 11	13.14	58	60.44	49 07
15.45	41	95.88	13 19	13.32	55	72.76	24 32	14.07	14	29.27	22 40	13.32	32	93.81	34 16	9.65	59 3	61.62	43 30
14.97	44	96.57	10 25	15.41	57	73.18	26 12	12.13	16	29.53	20 25	15.02	36	94.72	31 09	14.81	10	63.14	45 38
12.41	57	99.46	15 57	13.97	59	73.72	24 01	16.17	17	29.92	25 57	15.45	44	96.44	32 42	16.36	13	63.69	46 30
14.48	2 1	0.20	19 24	7.89*	0 2	74.37	28 09	16.36	18	30.13	22 02	14.89	46	96.92	37 30	15.41	24	66.22	45 11
15.45	6	1.29	17 53	13.14	4	74.70	28 44	14.68	27	32.10	22 29	15.19	50	97.78	37 11	15.32	26	66.61	46 26
15.88	10	2.11	10 04	14.68	8	75.51	24 11	15.68	32	33.02	27 00	15.92	53	98.43	38 13	15.02	29	67.29	44 32
15.64	18	3.87	12 09	15.83	15	77.06	29 53	13.51	33	33.40	21 04	11.17	58	99.61	37 07	13.81	34	68.35	46 27
16.17	25	5.38	11 06	15.64	18	77.73	25 59	15.88	35	33.78	22 31	16.36	2 3	0.73	39 51	15.45	37	68.89	48 06
13.89	28	6.19	17 32	15.88	36	81.81	29 18	15.02	36	33.99	28 02	16.36	4	0.87	32 25	14.08	38	69.24	41 05
14.68	30	6.50	11 09	16.36	42	83.10	27 23	13.78	37	34.13	20 54	16.17	10	2.20	37 53	15.32	38	69.25	42 15
14.28	31	6.68	10 00	12.77	47	84.19	26 09	16.36	42	35.17	29 09	9.34*	12	2.52	34 44	13.89	39	69.44	48 22
16.36	36	7.83	18 12	15.54	51	84.91	27 43	12.95	45	35.99	25 03	15.19	13	2.86	39 16	12.95	43	70.30	46 06
15.54	36	7.86	12 46	14.48	59	86.73	22 29	14.08	46	36.26	26 46	15.32	14	2.98	32 35	14.40	48	71.42	41 40

25 prec. + 63 sec. — 5′ 52″.

251—300				301—350				351—400				401—450				451—500			
Int. Magn.	a	x	$y+50'$	Int. Magn.	a	x	$y+50'$	Int. Magn.	a	x	$y+50'$	Int. Magn.	a	x	$\frac{y+50'}{y-10'}$	Int. Magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.14	59 50	71.84	48 57	14.28	3 20	17.39	46 28	16.17	59 53	72.51	59 55	15.68	4 10	28.17	53 46	15.88	2 15	3.33	4 41
16.36	52	72.24	48 31	15.64	24	18.21	44 43	15.88	0 4	74.80	51 09	10.52	17	29.69	53 00	14.52	18	3.99	9 26
10.46	54	72.64	46 42	15.32	26	18.67	48 11	16.36	6	75.32	50 26	16.36	22	30.83	51 08	16.36	24	5.10	6 32
11.58	54	72.73	46 08	10.79	33	20.16	48 26	13.70	8	75.64	52 23	15.41	31	32.71	52 10	15.92	29	6.22	2 47
15.32	58	73.42	42 53	15.02	33	20.23	42 21	16.36	23	78.92	58 59	14.60	31	32.78	52 33	15.68	29	6.23	6 04
16.17	0 2	74.45	41 54	15.64	34	20.48	44 31	16.17	26	79.56	53 40	15.54	37	34.03	51 39	15.64?	41	8.95	9 43
16.02	4	74.83	47 26	14.16	35	20.66	43 54	16.36	35	81.61	51 20	14.36	39	34.54	56 36	13.51	45	9.71	1 02
11.37	28	80.13	41 28	12.59	38	21.28	46 55	15.92	37	82.05	56 15	16.36	46	35.89	57 05	14.60	47	10.20	9 18
15.68	29	80.26	46 11	15.41	44	22.46	41 02	16.36	46	83.88	58 11	15.10	52	37.26	56 58	11.97	47	10.23	4 54
16.02	34	81.39	46 30	13.14	44	22.67	46 32	16.36	46	83.94	51 28	16.36	54	37.66	59 40	16.02	49	10.51	1 14
16.36	35	81.46	49 06	16.36	45	22.72	49 06	16.17	50	84.74	56 29	13.78	58	38.50	51 53	15.32	49	10.68	1 57
16.36	43	83.20	43 41	14.08	56	25.15	47 13	15.92	56	86.12	56 07	14.60	59	38.79	55 43	15.68	59	12.85	7 48
16.17	43	83.23	45 10	15.23	4 4	26.90	42 33	15.19	1 0	87.01	56 37	15.64	58 58	60.70	9 39	16.36	3 13	15.81	7 19
14.68	43	83.35	46 09	16.02	5	27.07	44 07	13.97	15	90.17	53 42	15.64	59 3	61.67	9 02	14.68	16	16.55	8 22
16.36	50	84.80	47 21	13.97	6	27.25	49 14	14.89	25	92.38	53 15	15.54?	16	64.63	8 31	14.97	21	17.45	9 13
13.51	1 2	87.50	49 00	15.54	10	28.14	40 59	15.68	33	94.07	53 08	15.68	18	64.92	9 00	14.81	22	17.67	3 04
14.28	3	87.66	43 12	16.36	20	30.44	46 04	15.64	37	94.97	52 45	16.36	21	65.62	1 20	15.68?	24	18.23	2 07
16.36	5	88.09	48 07	16.36	27	31.98	41 10	15.64	38	95.24	50 38	14.68	27	66.86	1 05	15.64	25	18.44	9 38
14.60	16	90.37	40 22	15.64	28	32.11	41 12	16.02	44	96.52	53 28	16.02	29	67.33	6 32	14.60	27	18.77	6 35
13.70	17	90.68	48 37	16.36	29	32.31	48 40	15.02	46	96.87	56 45	15.73	35	68.53	9 55	13.51	31	19.66	9 33
14.40	18	90.85	42 59	16.17	30	32.57	44 09	12.59	53	98.52	56 19	14.60	36	68.74	1 05	15.68	34	20.24	6 39
14.97	31	93.76	47 06	16.36	31	32.73	43 50	15.68	55	98.82	55 15	13.97	38	69.25	3 14	11.66	37	20.96	2 06
16.36	32	93.86	49 39	14.60	34	33.35	48 32	16.36	2 4	0.96	56 04	15.64	38	69.31	5 43	16.36	41	21.76	9 12
14.68	35	94.65	44 59	16.36	34	33.42	43 56	15.88	4	0.96	59 12	10.77	50	71.87	1 16	14.76	46	22.98	5 22
12.95	44	96.49	46 53	16.36	34	33.42	42 14	16.36	18	3.99	51 18	16.17	50	71.98	3 13	14.68	55	24.94	1 07
16.02	55	98.94	40 43	14.60	39	34.42	44 12	16.36	20	4.42	56 00	14.48	0 7	75.52	1 55	16.36	56	25.13	7 50
9.34*	55	98.94	49 08	14.76	46	35.92	49 06	14.60	24	5.09	58 47	12.77	7	75.65	6 46	16.36	4 1	26.21	3 35
15.78	2 4	0.89	42 12	15.23	47	36.18	42 04	13.70	25	5.46	52 14	15.78	20	78.31	7 11	14.89	20	30.37	1 22
16.02	10	2.14	41 59	15.54	47	36.22	47 47	16.02	36	7.87	58 40	16.36	31	80.81	7 59	12.95	21	30.43	0 24
14.36	10	2.23	44 58	14.60	48	36.40	46 12	14.40	53	11.38	55 14	15.54	36	81.80	4 16	15.23	21	30.47	3 37
16.36	11	2.48	47 29	16.36	48	36.57	45 53	16.17	53	11.49	59 37	14.28	39	82.53	7 15	16.36	32	32.96	9 43
14.16	15	3.23	49 03	14.60	49	36.74	40 48	16.36	57	12.28	57 59	15.36	42	83.11	0 06	15.68	33	33.20	8 22
11.63	20	4.23	47 34	14.56	50	36.79	42 41	14.89	59	12.76	57 40	15.68	46	84.05	3 49	15.41	34	33.32	4 03
14.20	22	4.79	40 55	16.36	56	38.17	47 40	15.32	3 0	13.04	55 47	16.36	54	85.70	0 46	15.92	40	34.52	7 27
15.92	22	4.80	46 02	16.36	58 56	60.19	53 26	16.36	3	13.69	52 06	15.78	56	86.14	0 10	15.68	42	35.06	6 07
16.36	23	5.00	49 06	15.78	59 0	60.89	54 30	16.36?	13	15.85	56 24	13.66	58	86.57	0 01	15.10	45	35.66	7 59
15.88	28	6.01	40 38	16.17	4	61.97	59 05	14.76	15	16.26	54 18	15.92	58	86.59	9 23	15.68	51	37.03	0 37
14.76	30	6.60	49 02	15.10	5	62.17	53 47	15.64	18	16.88	56 03	13.70	1 0	86.92	5 47	13.78	58 53	59.70	14 23
12.06	31	6.70	40 47	13.51	7	62.58	57 40	16.36	22	17.67	50 38	15.64	3	87.75	2 34	16.17	54	59.86	12 32
14.68	34	7.40	41 00	14.81	12	63.50	58 24	16.17	26	18.74	51 44	16.17	27	92.82	7 37	16.36	56	60.22	16 48
14.28	51	11.11	42 50	15.78	22	65.71	56 00	16.36	36	20.69	58 04	16.17	32	93.83	0 56	12.06	59	60.94	11 09
15.68	54	11.77	42 09	16.36	24	66.17	55 56	12.95	43	22.24	51 37	15.92	41	95.84	8 01	15.88	59 5	62.21	12 14
16.36	56	12.19	42 34	16.36	25	66.50	54 56	15.10	50	23.77	57 20	12.77	44	96.49	0 10	16.36	6	62.39	14 07
16.17	3 0	13.09	49 16	13.32	36	68.91	52 21	15.92	50	23.93	57 15	16.36	44	96.57	9 13	15.68	9	62.98	11 11
13.70	3	13.59	41 50	15.92	38	69.24	53 17	16.36	51	23.97	57 46	15.23	47	97.09	3 23	15.41	9	62.98	16 36
14.97	4	13.93	41 01	14.48	38	69.26	57 17	15.45	51	24.02	56 34	16.36	58	99.65	6 21	15.78	13	63.97	14 19
15.32	5	14.01	44 52	12.06	40	69.64	51 44	15.92	54	24.68	58 46	14.76	2 3	0.65	9 42	15.68	17	64.76	14 18
16.17	6	14.39	42 20	16.02	44	70.59	58 04	15.68?	4 1	26.13	54 16	15.78	8	1.82	9 54	16.36	17	64.87	16 28
15.10	18	16.89	48 00	11.16	49	71.53	52 02	15.88	8	27.72	55 26	13.14	13	2.72	8 56	16.36	24	66.39	11 12
14.60	18	17.01	44 22	15.32	52	72.29	52 21	16.02	9	27.90	53 18	15.92	14	3.02	3 26	16.36	25	66.56	17 27

25 prec. + 63 sec. — 5′ 51″.

501—540				541—580				581—620				621—655			
Int. magn.	α	x	y − 10′	Int. magn.	α	x	y − 10′	Int. magn.	α	x	y − 10′	Int. magn.	α	x	y − 10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.68	59 32	67.96	14 51	13.89	2 16	3.53	12 02	13.62	58 57	60.56	29 40	16.36	2 33	7.13	26 28
16.36	34	68.57	19 36	16.36	34	7.33	10 59	16.36	59 0	61.15	23 13	9.93	43	9.19	23 46
12.59	42	70.15	19 41	15.92	39	8.46	18 51	14.40	16	64.58	26 32	16.02	48	10.25	29 36
16.36	43	70.34	17 52	16.36	40	8.60	18 30	13.51	25	66.54	29 05	14.36	53	11.46	22 42
12.77	45	70.83	13 08	15.78	49	10.62	17 44	15.68	26	66.91	22 32	15.88	53	11.49	21 53
16.36	48	71.52	10 28	15.92	51	11.03	16 42	13.51	30	67.76	21 00	15.19	54	11.72	23 04
16.02	0 10	76.19	14 43	15.78	52	11.33	18 08	12.95	41	70.13	29 15	14.68	58	12.44	26 19
15.02	12	76.68	16 12	15.23	55	11.90	16 21	15.54	51	72.19	29 17	13.32	3 2	13.31	23 57
16.36	14	77.00	15 09	16.17	58	12.51	14 57	15.19	52	72.38	29 09	15.19	12	15.56	21 05
13.32	18	77.97	17 47	15.23	3 2	13.46	18 15	15.78	53	72.58	26 35	14.28	13	15.75	26 31
16.36	19	78.29	18 13	15.10	4	13.81	11 45	10.56	57	73.55	22 14	16.02	13	15.78	20 04
15.68	34	81.48	16 11	15.64	9	14.89	13 49	16.17	0 3	74.81	28 58	16.36	14	15.98	29 07
16.36	45	83.72	19 13	15.10	14	15.95	12 43	16.02	4	74.98	28 12	12.59	25	18.29	20 56
14.08	49	84.58	13 56	14.48	18	16.79	17 01	15.88	4	75.09	24 20	16.36	37	20.97	27 58
16.36	55	86.06	19 43	16.36	21	17.44	18 44	15.02	7	75.58	22 52	16.17	46	22.75	25 19
15.68	57	86.41	15 03	14.48	27	18.74	17 07	16.36	7	75.64	28 08	13.14	46	22.75	24 23
15.41	58	86.66	17 45	15.45	30	19.36	10 42	12.77	8	75.84	22 38	16.36	46	22.76	23 59
12.41	59	86.76	12 07	15.88	33	20.12	12 34	15.41	9	76.04	25 07	15.78	49	23.45	22 20
16.36	1 3	87.77	10 19	16.36	34	20.31	18 27	15.19	32	80.99	24 33	16.36	49	23.49	22 34
16.36	4	87.94	16 28	16.02	35	20.44	13 54	16.36	32	81.14	26 47	15.02	51	24.03	29 15
15.92	5	88.15	18 34	15.45	37	21.00	13 14	15.45	42	83.10	25 35	14.76	52	24.20	29 17
15.64	8	88.68	19 42	16.36	39	21.34	17 21	16.36	44	83.58	27 19	16.36	57	25.25	29 59
16.02	9	88.94	18 31	13.14	39	21.46	15 09	14.48	48	84.37	20 27	13.70	58	25.54	25 36
15.23	10	89.30	16 12	16.36	40	21.57	16 27	15.41	52	85.34	27 19	14.60	4 6	27.23	21 00
16.36	16	90.40	10 35	15.92	46	22.97	18 55	15.88	55	85.99	27 06	15.68	13	28.67	20 34
13.78	17	90.67	15 10	16.36	53	24.46	17 21	16.02	58	86.53	28 48	15.92	14	28.95	21 51
16.17	19	91.21	13 43	14.89	4 1	26.10	10 46	15.68	1 2	87.47	27 27	16.36	25	31.36	28 44
15.54	20	91.27	14 40	16.36	2	26.38	14 54	15.78	2	87.50	24 49	12.77	26	31.37	26 44
12.41	22	91.80	18 15	16.17	12	28.55	17 55	16.36	6	88.26	24 37	15.19	31	32.60	23 04
12.06	22	91.81	11 55	15.68	18	29.75	10 35	15.68	21	91.65	26 47	15.92	32	32.72	28 48
16.36	29	93.26	19 49	14.36	19	30.02	11 52	15.45	49	97.67	23 02	16.02	36	33.71	27 47
15.54?	44	96.46	18 48	13.62	26	31.56	13 12	15.68	52	98.17	26 42	15.92?	46	35.72	23 52
15.92	47	97.26	11 39	12.23	28	31.90	17 38	14.16	52	98.27	22 52	15.54	54	37.52	24 00
14.76	51	98.15	18 23	14.97	31	32.68	12 18	15.32	2 4	0.91	29 01	16.36	56	37.86	28 47
15.41	58	99.48	14 30	16.36	46	35.83	13 44	15.10	5	1.03	25 09	10.45	56	37.90	21 59
13.62	58	99.66	17 58	13.62	57	38.22	12 15	15.68	9	1.95	25 00				
16.36	2 1	0.15	19 22	14.81	58	38.39	12 10	16.36	11	2.28	21 00				
14.01	3	0.63	13 11	15.88	5 0	38.92	14 53	15.92	13	2.90	28 29				
16.36	10	2.16	17 25	13.51	58 56	60.26	28 50	16.36	17	3.64	27 14				
14.48	14	3.09	16 40	14.97	57	60.55	26 16	14.68	31	6.73	28 23				

25 prec. + 63 sec. — 5′ 51″.

Area 60. Centre for 1900: 15h 56m + 29° 50′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.74	53 8	62.59	11 59	15.51	56 49	10.66	15 50	14.74	54 10	75.95	24 06	14.04	53 36	68.63	35 52	12.42	57 26	18.72	34 00
15.77	18	64.62	19 59	8.60	53	11.64	13 46	15.30	21	78.39	20 02	15.77	42	69.96	35 58	14.70	27	18.92	39 23
15.96	21	65.25	18 55	15.46	57 13	15.93	19 28	13.67	24	79.09	22 53	15.77	47	71.12	39 07	14.74	28	19.16	34 29
14.98	26	66.41	10 10	15.08	20	17.43	10 53	15.96	35	81.44	23 41	11.30	51	71.94	38 34	14.70	29	19.26	35 02
11.20	34	68.13	13 09	14.84	25	18.51	16 33	12.07	47	84.19	21 55	11.23	53	72.48	34 36	14.84	29	19.37	35 27
15.96	36	68.63	13 29	15.96	29	19.42	12 45	15.96	52	85.16	24 21	14.08	57	73.19	30 41	14.98	32	19.97	37 08
14.60	42	69.88	12 04	14.51	35	20.77	16 41	14.60	55 28	93.13	21 01	15.62	57	73.33	36 52	15.51	35	20.57	36 46
15.96	47	71.05	17 20	14.16	39	21.64	10 50	14.94	31	93.64	22 21	15.08	54 1	74.19	30 14	13.47	52	24.30	34 03
15.08	55	72.80	10 15	14.74	47	23.24	17 30	14.60	32	93.81	29 34	15.08	11	76.27	31 26	15.77	55	24.98	31 00
15.46	57	73.19	17 40	14.38	48	23.55	14 42	12.78	35	94.57	29 52	15.24	12	76.61	31 10	15.96	55	25.10	31 05
15.96	59	73.51	15 37	15.62	48	23.65	15 17	14.84	56 2	0.40	26 02	15.96	13	76.82	36 32	15.62?	58 1	26.37	30 05
15.77	54 2	74.24	14 45	15.96	52	24.53	18 18	15.96	10	2.28	28 57	15.96	15	77.08	39 53	15.96	2	26.59	31 01
14.16	3	74.39	16 43	15.35	55	25.12	10 02	15.51	14	3.05	25 57	15.51	19	77.99	38 51	15.96	4	26.91	32 26
14.08	3	74.40	18 40	14.70	59	25.86	11 05	15.96	34	7.38	25 22	15.08	20	78.22	39 39	14.42	5	27.08	30 28
14.60	12	76.55	16 22	15.51	58 0	26.08	19 40	15.77	38	8.18	24 36	15.96	22	78.66	35 10	13.55	8	27.83	33 33
15.19	20	78.15	15 00	13.35	4	27.09	17 20	15.96	44	9.68	20 59	13.95	25	79.26	38 58	13.95	12	28.66	38 11
14.51	32	80.83	16 15	15.77	12	28.77	14 27	15.96	45	9.75	27 29	10.20	25	79.33	39 06	15.08	12	28.80	32 52
15.77	33	81.08	16 27	13.83	18	30.07	15 59	15.08	48	10.45	22 28	14.47	25	79.35	38 17	15.96	20	30.54	34 24
15.96?	50	84.84	15 49	12.24	25	31.58	18 53	11.21	48	10.55	26 50	10.54	27	79.81	32 54	15.35	22	30.87	30 43
14.70	58	86.56	12 52	13.83	31	32.90	11 53	14.47	50	10.87	27 59	15.77	33	81.17	38 02	12.24	26	31.79	30 13
15.46	55 0	86.83	16 51	11.75	31	32.98	19 24	14.74	57 4	13.93	21 22	14.29	40	82.62	38 49	14.74	28	32.09	38 51
15.96	2	87.29	11 08	15.96	31	33.00	16 43	13.47	7	14.53	28 53	12.97	41	82.81	37 49	15.57	30	32.66	39 56
14.08	3	87.46	13 50	14.51	34	33.67	14 26	13.08	8	14.79	25 51	14.70	44	83.50	31 36	15.08	35	33.63	38 37
14.94	8	88.61	13 17	15.24	36	33.97	16 36	14.08	10	15.32	20 34	14.51	48	84.31	36 20	13.67	37	34.08	38 38
15.96	8	88.74	17 21	14.70	42	35.31	12 07	15.19	20	17.33	21 37	12.78	50	84.73	37 26	11.44	39	34.51	34 24
14.51	15	90.17	11 04	15.51	43	35.60	11 54	14.98	29	19.30	26 03	15.62	55 1	87.14	31 26	13.55	41	35.04	32 57
15.35	16	90.34	14 10	14.94	46	36.10	10 25	15.62	33	20.18	22 46	14.74	9	88.95	34 30	15.96	42	35.16	38 33
15.96	18	90.85	11 57	15.08	49	36.93	19 13	13.87	35	20.62	24 20	14.25	14	90.04	33 43	15.96?	46	36.04	31 32
15.24	19	91.04	18 43	9.32	54	37.85	14 02	14.47	36	20.83	26 19	15.77	18	90.89	30 35	14.08	49	36.65	31 18
15.96	22	91.77	11 18	14.16	59 3	40.00	11 46	15.96	43	22.53	22 43	14.38	19	90.99	31 04	13.75	50	36.95	31 32
14.47	25	92.36	18 58	14.60	6	40.60	10 42	15.77	46	23.05	22 27	15.51	20	91.20	38 47	12.24	50	36.96	37 32
14.70	33	94.10	15 51	15.62	9	41.23	15 57	14.25	46	23.18	27 39	14.25	24	92.15	33 12	15.77	59 5	40.30	36 59
15.96	35	94.51	18 24	14.25	12	41.99	17 47	14.47	47	23.36	24 16	15.46	24	92.21	34 49	11.26	7	40.72	30 59
14.08	36	94.72	10 52	14.94	53 16	64.27	24 07	12.97	48	23.42	21 39	15.24	25	92.33	32 03	15.96	12	41.72	37 02
14.60	42	96.12	10 23	15.96	16	64.40	24 49	14.60	48	23.57	28 44	13.27	30	93.37	35 22	15.96	53 9	62.86	47 57
13.63	44	96.59	12 42	15.19	18	64.75	27 44	14.51	49	23.65	23 46	15.96	37	95.09	37 00	15.96	10	63.07	47 10
14.70	49	97.59	18 47	15.96	21	65.42	27 23	15.68	52	24.36	20 35	12.24	43	96.38	34 04	13.55	13	63.65	47 13
15.96	52	98.34	18 48	13.95	29	67.13	21 49	12.90	59	25.85	29 24	15.08	46	96.91	36 40	13.43	18	64.88	45 39
14.29	53	98.49	14 31	11.41	29	67.14	22 00	15.77	58 29	32.39	29 01	14.84	49	97.60	37 35	15.96	21	65.53	47 00
13.95	56	99.21	13 29	14.25	34	68.17	21 33	15.46	35	33.79	22 57	12.97	49	97.70	32 32	15.96	23	65.85	48 05
15.19	56 1	0.22	14 47	15.62	34	68.22	28 21	11.41	37	34.25	27 22	15.19	50	97.81	33 10	13.35	34	68.27	43 17
15.62	13	2.88	10 08	14.70	35	68.35	28 21	12.60	40	34.87	25 32	15.96	51	98.07	35 16	11.37	36	68.79	49 43
13.75	19	4.20	18 18	15.96	38	69.16	24 34	15.24	45	35.96	23 32	15.24	55	98.90	32 19	11.34	47	71.04	48 11
15.96	20	4.41	11 34	15.46	52	72.19	21 20	15.35	48	36.58	26 01	15.24	56 1	0.18	34 59	15.96	59	73.81	42 00
15.62	22	4.75	12 43	15.57	52	72.21	20 00	15.96	55	38.08	22 55	15.19	4	0.96	37 29	15.77	54 0	74.02	49 15
15.51	25	5.50	15 16	14.47	53	72.34	26 25	15.96	59	39.07	21 30	12.24	23	4.93	32 28	15.24	5	75.04	45 55
15.19	27	5.99	16 57	12.24	54	72.67	27 19	15.62	59 1	39.48	21 31	15.51	23	5.08	38 45	15.46	11	76.30	45 37
15.96	29	6.37	15 43	14.70	56	72.92	28 47	14.60	9	41.06	27 05	13.67	37	8.09	37 34	15.62	13	76.71	43 23
14.60	33	7.26	11 54	15.96	54 5	75.01	26 37	13.83	11	41.51	24 05	15.96	54	11.83	31 18	12.24	17	77.69	46 50
15.08	48	10.49	12 46	15.19	7	75.45	26 19	14.29	53 36	68.59	32 30	14.70	57 26	18.70	33 43	15.62	24	79.16	47 07

25 prec. + 61 sec. — 4′ 18″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+50'	Int. magn.	α	x	y+50'	Int. magn.	α	x	y+50' / y−10'	Int. magn.	α	x	y−10'	Int. magn.	α	x	y−10'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.96	54 27	79.81	49 15	14.51	58 40	34.62	43 40	15.96	56 43	9.26	58 02	15.19	54 28	80.05	2 16	15.96	58 12	28.53	7 20
15.96	28	80.12	44 39	13.43	46	36.06	40 31	15.51	46	10.06	51 36	15.96	29	80.24	1 57	12.60	22	30.76	7 36
15.77	33	81.07	40 04	15.77	47	36.35	42 10	11.32	55	11.99	52 25	15.96	31	80.71	6 58	15.35	24	31.12	9 33
15.96	33	81.20	48 50	13.63	51	37.12	47 10	14.70	59	12.69	52 32	15.96	34	81.43	7 39	14.94	32	32.88	2 30
15.62	38	82.27	40 38	13.87	59	38.89	47 52	14.56	59	12.70	59 40	11.20	36	81.82	2 49	15.96	47	36.12	5 03
15.62	43	83.31	43 56	15.24	59 0	39.07	42 40	13.63	57 9	14.89	50 37	15.19	41	82.94	0 46	13.35	50	36.74	3 35
15.96	44	83.54	49 56	15.96	0	39.11	45 15	15.51	10	15.22	58 58	15.96	42	83.13	9 30	14.74	58	38.44	3 13
15.35	46	83.99	44 02	14.98	0	39.18	40 29	14.70	13	15.84	55 35	9.86	48	84.48	4 24	15.62	59 0	38.97	8 18
14.38	57	86.36	49 52	11.38	12	41.64	48 28	13.24	16	16.44	55 32	12.78	52	85.23	1 13	15.19	3	39.63	6 54
8.04*	55 3	87.71	43 04	15.96	53 5	62.00	56 25	15.46	17	16.78	52 54	14.08	55 1	87.16	6 36	15.96	53 6	62.36	11 43
15.96	14	90.09	40 38	14.98	12	63.62	52 28	15.96	18	16.79	52 51	15.77	1	87.31	1 06	15.96	17	64.90	15 42
13.83	26	92.64	41 53	15.77	12	63.63	59 43	15.19	20	17.31	54 16	15.46	9	89.00	2 30	14.08	21	65.62	15 54
14.98	36	94.79	47 54	15.62	17	64.64	50 53	14.84	22	17.75	54 58	15.77	14	89.97	3 44	15.96	23	66.11	12 10
12.42	42	96.11	45 47	14.94	26	66.65	58 22	14.98	34	20.46	58 39	12.97	16	90.39	5 25	15.96	27	67.02	10 51
14.47	49	97.50	48 29	13.43	27	66.77	51 25	15.96	46	23.07	59 24	14.29	16	90.42	0 11	14.74	29	67.36	17 46
15.96	57	99.29	44 51	15.77	29	67.28	55 58	14.98	47	23.16	52 07	14.04	21	91.59	6 04	13.08	33	68.35	15 40
15.24	59	99.69	45 58	14.94	42	70.04	59 28	15.96	49	23.66	54 31	14.51	36	94.83	2 38	15.46	34	68.55	16 07
14.38	56 3	0.60	42 59	15.96	48	71.49	53 56	14.16	56	25.23	55 14	15.96	37	94.97	4 58	15.77	45	70.86	14 18
15.96	4	0.89	49 35	14.60	59	73.82	56 31	14.60	58 3	26.68	54 35	12.07	37	94.98	2 57	15.96?	46	71.06	17 29
14.51	9	1.93	46 45	14.70	54 0	74.03	50 58	14.38	8	27.71	51 28	15.96	49	97.61	4 42	15.77	52	72.46	17 46
14.98	15	3.15	41 39	14.51	0	74.05	53 02	15.35	9	27.88	59 45	15.96	54	98.78	6 03	14.51	54	72.86	12 11
14.60	16	3.48	46 54	12.60	3	74.73	55 02	14.29	10	28.20	51 37	15.96	56	99.18	8 49	12.42	56	73.33	15 37
14.94	21	4.54	44 02	14.38	11	76.45	55 55	12.97	13	28.75	58 31	13.35	56 5	1.02	2 06	13.24	54 5	75.10	17 28
15.96	21	4.57	43 07	14.47	17	77.61	53 11	13.35	13	28.89	51 26	15.96	8	1.71	0 51	15.08	14	77.19	14 20
11.75	32	6.92	49 09	9.97	19	78.15	51 44	14.38	22	30.69	57 07	15.24	9	1.97	3 47	15.24	18	77.91	15 31
15.96	34	7.27	42 03	14.98	22	78.81	54 18	14.04	22	30.79	55 27	14.65	10	2.22	0 16	14.25	33	81.23	12 15
15.96	39	8.38	43 38	15.96	28	80.13	55 48	15.96	28	31.98	57 35	13.87	28	6.15	8 29	15.35	39	82.58	14 07
15.62	40	8.77	46 07	14.74	32	80.83	57 21	13.63	28	32.14	52 18	15.46	31	6.75	7 38	14.74	43	83.46	12 20
15.51	42	9.17	45 15	14.70	34	81.26	58 40	15.19	30	32.39	55 44	14.16	32	6.93	3 30	8.72*	44	83.64	17 26
15.19	54	11.68	47 25	14.04	36	81.84	57 04	14.08	32	33.01	52 15	15.96	32	7.02	9 56	13.24	55 0	87.15	15 21
13.47	57 17	16.62	46 52	14.74	55 0	86.89	54 45	13.63	39	34.39	52 00	14.38	44	9.47	7 18	14.94	2	87.58	16 37
12.78	18	16.89	49 17	14.84	0	87.01	50 30	14.94	42	35.02	56 58	14.74	44	9.53	0 10	15.96	3	87.73	10 24
14.70	20	17.28	44 46	11.38	1	87.14	59 28	15.96	43	35.22	57 04	14.04	54	11.75	0 48	14.08	17	90.66	19 16
15.08	22	17.80	40 14	14.38	3	87.68	56 03	15.24	44	35.63	56 37	14.08	56	12.20	2 13	13.67	31	93.67	12 51
13.67	26	18.61	48 28	12.97	7	88.52	58 51	15.96	56	38.09	50 08	12.60	57 4	13.93	5 43	14.25	33	94.26	16 38
14.98	27	18.94	43 11	15.96	21	91.50	54 11	14.29	57	38.44	58 39	14.70	12	15.62	3 05	14.47	34	94.35	15 54
13.87	32	19.92	48 32	15.51	21	91.51	50 46	15.46	59 0	38.94	53 49	15.77	14	15.95	1 05	15.96	37	95.11	19 24
15.62	39	21.54	45 32	13.67	36	94.76	57 16	15.19	1	39.20	59 01	14.60	25	18.32	3 06	15.24	39	95.39	10 21
14.60	41	21.88	49 31	11.23	36	94.78	58 29	15.96	1	39.30	53 52	4.91[1]	26	18.63	7 54	13.43	56 0	0.09	19 52
15.96	41	21.99	49 00	15.62	55	98.97	58 47	14.16	2	39.50	52 21	15.96	33	20.07	0 10	15.08	13	2.79	11 02
15.62?	43	22.31	42 23	9.30*	56 10	2.25	54 58	15.24	9	41.02	50 27	15.24	33	20.18	5 00	15.77	14	2.93	12 41
14.29	49	23.55	42 54	12.60	14	3.06	55 28	11.70	12	41.52	58 59	15.96	34	20.39	4 44	15.62	14	3.07	11 31
15.24	57	25.49	43 17	14.94	20	4.25	54 43	15.08	53 14	64.11	8 22	14.94	41	21.84	8 58	14.16	17	3.58	14 32
15.19	58 3	26.69	40 01	15.24	30	6.56	59 51	10.67	19	65.19	3 56	14.47	43	22.31	8 57	15.35	37	8.02	10 20
14.04	9	28.08	47 40	15.62	31	6.74	57 26	13.87	30	67.66	5 41	15.19	44	22.50	4 57	12.07	39	8.36	17 33
14.70	14	28.99	42 25	15.96	34	7.44	53 28	14.51	31	67.79	3 42	13.83	55	24.95	8 57	15.62	45	9.62	13 34
15.96	14	29.05	49 07	15.77	36	7.75	51 07	14.25	32	67.99	5 01	15.08	58 1	26.19	9 11	14.60	46	9.85	19 28
13.75	17	29.72	41 24	10.24	41	8.80	50 33	15.96	41	69.97	7 40	15.08	7	27.57	5 14	14.47	51	11.06	18 04
15.96	23	30.93	48 46	13.75	42	9.06	51 59	14.94	55	73.05	8 44	14.47	8	27.78	3 07	15.46?	52	11.19	18 33
12.97	26	31.76	42 07	15.62	42	9.18	54 01	15.96	54 24	79.14	2 44	11.38	12	28.53	2 11	14.29	52	11.22	16 28

[1] Vis. magn. from Harv. Ann. **50** reduced to phot. magn. by Harv. Ann. **71**, I p. 7.

25 prec. + 60 sec. — 4' 18".

15^{h} Area 60. $+30^{\circ}$

501—530				531—560				561—590				591—620				621—624			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.19	57 1	13.25	12 40	14.70	58 51	36.94	15 18	14.47	54 21	78.62	23 36	14.25	56 56	12.15	24 13	14.47	59 3	39.53	20 54
13.91	6	14.23	19 52	15.24	53	37.45	12 36	14.08	26	79.64	23 54	14.08	57 6	14.17	24 22	14.08	4	39.60	28 56
15.96	6	14.36	13 02	15.24	59 7	40.40	14 22	15.62	30	80.60	24 45	14.60	17	16.52	29 26	15.77	10	41.04	20 19
15.24	8	14.68	13 49	14.84	53 7	62.67	27 54	15.62	33	81.30	25 06	12.97	26	18.64	26 20	15.24	11	41.11	28 13
15.24	13	15.86	18 55	14.70	8	62.88	28 21	15.24?	47	84.36	26 17	14.08	27	18.71	23 00				
12.78	15	16.19	13 47	15.08	13	63.94	24 20	14.74	50	84.91	28 39	13.16	32	19.86	28 52				
14.94	22	17.63	10 30	15.96	14	64.29	27 45	14.74	56	86.18	25 57	15.96	33	20.05	27 38				
14.94	26	18.51	15 40	15.24	18	64.97	28 31	14.47	56	86.27	26 59	14.08	35	20.51	25 01				
15.46	26	18.55	18 53	12.42	18	65.16	22 35	15.19	59	86.78	25 37	15.77	38	21.05	27 48				
15.96	27	18.82	19 29	14.38	19	65.25	27 46	15.08	55 3	87.80	27 44	13.75	46	22.85	27 24				
15.62	30	19.36	12 11	10.24	20	65.40	22 44	12.07	6	88.31	24 38	15.96	50	23.61	26 42				
11.22	35	20.41	19 29	12.42	23	66.18	21 50	14.84	6	88.43	25 17	15.96	58 8	27.66	29 49				
15.19	39	21.35	14 41	14.94	27	67.10	23 18	15.77	9	88.97	25 06	14.51	11	28.25	22 33				
15.77	39	21.36	15 46	14.08	32	68.02	24 15	15.08	21	91.59	27 34	12.07	12	28.50	21 54				
13.47	39	21.45	19 34	14.94	37	69.07	22 47	15.96	26	92.65	28 21	15.62	12	28.55	29 25				
11.24	43	22.31	10 20	15.24	51	72.21	24 01	15.77	28	93.01	22 35	12.24	13	28.69	28 11				
10.14	44	22.50	19 30	13.08	51	72.24	20 50	15.08	30	93.49	29 12	15.96	20	30.15	23 22				
15.96	54	24.55	10 43	15.24	54	72.76	20 18	15.08	32	94.05	27 44	15.96	23	30.85	25 48				
15.96	54	24.70	18 28	14.29	56	73.26	28 42	14.94	41	95.86	25 52	14.29	29	32.10	27 38				
15.96	57	25.35	18 42	14.29	59	73.95	20 04	15.35	43	96.27	25 21	15.62	29	32.13	20 19				
15.96	58 0	25.93	18 56	15.35	54 3	74.78	23 58	12.97	45	96.78	25 31	11.70	34	33.20	25 00				
15.77	3	26.50	11 01	15.08	3	74.79	21 27	15.62	53	98.57	21 44	14.84	35	33.37	24 45				
15.51	9	27.92	17 49	13.95	3	74.80	28 38	14.84	58	99.57	24 52	14.74	42	34.93	24 39				
14.94	14	28.83	18 55	14.70	7	75.61	24 38	13.16	56 0	99.99	24 07	9.79	46	35.84	27 06				
15.51	15	29.21	18 36	14.25	10	76.28	20 59	15.96	1	0.23	23 28	14.60	49	36.35	28 19				
14.84	21	30.43	11 21	14.70?	13	77.03	20 50	13.63	8	1.69	28 44	14.70	51	36.78	27 53				
15.35	22	30.56	17 16	15.96	17	77.74	22 55	14.84	11	2.41	20 02	12.60	51	36.96	25 47				
15.96	32	32.93	12 59	13.16	17	77.84	28 06	9.59	14	2.98	23 44	15.96	54	37.58	28 48				
15.24	37	33.83	10 50	13.83	19	78.13	29 06	10.84	14	3.12	28 48	15.24	57	38.26	22 51				
15.24	48	36.24	12 15	14.16	19	78.26	28 07	15.96	52	11.29	29 39	13.95	59 3	39.43	28 19				

25 prec. + 60 sec. — 4′ 17″.

16^{h} Area 61. Centre for 1900: $16^{h}\ 59^{m}\ +30^{\circ}\ 0'$. $+29^{\circ}$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.12	56 33	68.14	37 23	15.43	56 59	73.66	39 36	13.77	57 25	79.37	33 47	15.77	57 57	86.22	30 32	15.77	58 22	91.82	33 26
15.12	34	68.22	31 12	9.40	57 8	75.75	36 47	14.43	26	79.54	32 59	15.77	58 0	86.91	39 55	15.00	30	93.52	30 20
15.77	38	69.16	39 00	14.43	9	75.92	38 10	15.58	36	81.71	30 27	13.77	5	88.03	32 02	14.54	37	94.97	33 10
13.77	40	69.48	39 37	15.77	13	76.74	30 09	15.77	37	82.01	38 32	11.66	7	88.40	33 54	15.12	38	95.18	37 40
14.82	41	69.86	34 55	15.77	17	77.51	39 10	15.77	39	82.42	33 50	14.94	11	89.30	34 39	10.94	39	95.44	38 35
12.55	49	71.42	38 11	13.92	18	77.84	38 07	14.65	45	83.62	39 37	15.12	13	89.76	34 07	15.58	41	95.90	32 52
14.82	51	72.02	31 47	14.12	19	78.03	39 29	14.12	46	83.80	30 01	14.27	15	90.18	32 49	14.94	44	96.57	31 13
14.38	51	72.04	30 45	15.31	19	78.04	38 09	14.27	50	84.83	33 02	15.77	16	90.54	32 25	15.77	48	97.29	31 14
15.77	53	72.31	36 31	14.27	20	78.28	37 02	14.71	54	85.73	34 44	15.58	20	91.21	33 47	14.54	59 0	99.90	39 35
15.00	56	73.14	31 27	15.58	24	79.12	36 09	14.43	55	85.88	30 28	15.25	22	91.74	35 28	15.77	0	0.06	39 00

25 prec. + 59 sec. — 2′ 14″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′ / y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
8.66*	59 9	1.88	37 17	15.00	56 46	70.88	43 07	15.00	59 33	7.09	44 00	14.65	57 43	83.27	50 02	14.27	59 48	10.50	56 05
15.77	12	2.54	32 04	14.38	51	72.07	47 31	15.43	44	9.57	43 44	14.94	45	83.84	55 05	14.82	52	11.20	58 46
14.82	19	4.14	35 19	14.88	53	72.34	49 44	15.43	46	9.96	45 48	15.31	53	85.42	50 45	15.77	56	12.06	57 32
14.17	19	4.18	39 28	15.77	57	73.25	49 57	15.77	51	11.07	45 04	15.58	55	85.83	51 03	14.82	57	12.28	55 32
15.58	20	4.31	31 49	14.82	58	73.63	46 26	13.77	51	11.14	41 49	15.12	56	86.08	52 33	15.58	59	12.80	56 14
14.82	22	4.70	37 19	13.77	57 0	73.93	49 34	14.71	57	12.27	48 23	14.94	57	86.27	55 40	15.77	0 5	14.05	59 42
15.31	27	5.96	30 17	15.58	8	75.59	43 56	12.22	57	12.33	43 14	14.65	57	86.32	54 55	15.43	11	15.32	54 42
14.54	28	6.15	38 39	13.39	9	75.93	47 58	15.77	0 6	14.28	49 52	15.77	58	86.52	57 54	14.94	14	16.01	52 16
12.55	28	6.19	31 53	12.42	11	76.32	47 24	13.44	11	15.51	40 18	15.77	58	86.67	54 30	15.31	28	19.01	57 22
15.77	31	6.73	36 25	12.42	14	76.94	44 44	14.02	14	16.08	48 58	15.58	59	86.85	53 19	14.82	31	19.72	57 30
15.58	31	6.82	33 51	15.77	21	78.47	47 52	15.77	17	16.70	49 46	15.58	58 0	86.97	57 24	15.43	33	20.13	58 39
15.58	37	7.96	38 20	15.12	24	79.10	44 41	12.63	18	16.96	41 50	10.37	0	87.08	58 34	13.53	37	20.92	54 50
12.42	39	8.29	32 39	13.77	26	79.62	43 04	15.58	23	17.93	41 40	15.58	1	87.26	59 21	14.17	37	21.05	57 14
14.65	41	8.92	36 17	13.97	29	80.22	40 01	15.58	25	18.37	41 49	14.65	4	87.96	58 30	14.49	39	21.43	50 06
12.85	42	9.04	39 00	14.49	32	80.94	40 00	15.12	26	18.65	45 36	14.82	5	88.11	53 25	13.77	40	21.70	57 12
15.00	42	9.07	32 07	15.00	39	82.43	44 53	15.43	29	19.33	48 27	15.00	9	88.85	52 34	12.85	54	24.76	53 28
15.43	50	10.81	33 14	15.58	48	84.37	42 48	14.17	31	19.77	40 28	13.87	14	90.01	53 53	13.21	1 6	27.32	56 23
13.92	51	11.04	38 04	14.38	51	85.11	44 31	13.39	37	21.13	43 46	15.58	15	90.15	56 00	14.94	6	27.33	57 08
15.12	52	11.28	34 33	15.43	53	85.40	42 48	13.68	44	22.68	41 11	14.54	16	90.39	54 46	15.58	56 33	68.27	7 17
15.25	54	11.71	36 28	14.94	57	86.41	45 36	14.02	45	22.80	46 32	14.65	18	90.93	57 10	14.94	34	68.38	1 06
15.00	0 5	14.14	30 31	15.77	58 6	88.34	48 23	14.94	49	23.64	48 33	11.58	24	92.20	55 09	14.22	38	69.24	9 57
15.77	5	14.21	30 57	12.98	6	88.38	47 52	14.54	51	24.08	44 41	15.58	24	92.22	57 13	14.94	40	69.66	6 49
14.71	9	14.95	31 49	15.12	8	88.82	48 40	8.94	54	24.78	48 48	14.12	24	92.23	53 52	13.87	46	70.93	2 06
15.25	13	15.93	34 01	10.32	12	89.58	44 53	15.43	57	25.33	46 39	15.25	25	92.32	55 13	15.77	47	71.14	7 03
14.38	18	17.02	34 20	12.72	13	89.79	46 59	14.82	58	25.67	41 14	12.42	27	92.77	54 21	14.71	49	71.72	6 50
13.77	21	17.64	36 06	15.77	16	90.41	49 01	15.25	59	25.84	44 47	14.94	30	93.49	50 44	14.82	53	72.52	5 35
14.94	32	20.00	36 20	14.54	17	90.61	45 24	15.58	1 2	26.58	44 35	15.25	30	93.60	51 48	12.42	56	73.15	7 03
14.02	33	20.12	32 58	15.00	19	91.02	49 51	14.02	56 33	68.15	55 05	12.94	32	93.93	54 30	11.66	57 1	74.29	3 33
13.39	33	20.20	38 29	15.12	23	91.97	41 21	14.82	33	68.19	57 34	13.07	36	94.71	56 30	12.42	5	75.07	4 30
15.77	42	22.28	36 31	15.31	24	92.09	44 57	15.77	34	68.33	50 36	15.58	44	96.45	54 04	14.94	5	75.20	0 05
13.92	45	22.75	32 49	15.77	25	92.40	46 24	13.92	36	68.77	52 56	14.17	45	96.65	54 17	14.38	10	76.14	8 39
14.71	45	22.77	36 06	14.54	27	92.86	41 06	13.63	38	69.30	59 08	13.21	49	97.64	57 32	15.77	14	77.16	7 19
14.12	45	22.82	35 12	14.71	28	92.95	47 47	11.84	38	69.31	55 15	9.06*	50	97.93	57 43	14.54	21	78.60	2 49
14.71	45	22.90	33 07	14.82	38	95.17	46 17	12.42	39	69.53	50 52	12.98	58	99.46	54 52	15.77	25	79.38	6 43
14.82	46	23.07	37 19	14.07	41	95.88	49 52	12.85	40	69.71	54 38	14.17	59	99.76	56 04	11.13	27	79.83	4 31
14.27	47	23.16	34 01	15.25	41	95.88	48 44	15.25	41	69.82	52 11	14.82	59 5	1.09	58 55	15.00	29	80.22	1 49
15.77	51	24.06	36 19	14.43	42	96.04	48 54	15.77	44	70.54	54 06	14.82	10	2.06	59 49	11.28	30	80.42	7 12
15.77	52	24.42	34 59	14.82	44	96.43	49 34	15.77	49	71.70	53 06	15.58	12	2.63	50 15	14.49	30	80.60	0 27
15.77	52	24.46	35 45	15.00	46	97.05	47 03	15.77	55	72.96	57 07	14.71	16	3.54	50 03	13.68	33	81.24	0 47
15.12	54	24.68	36 19	13.63	48	97.42	45 09	14.94	55	72.99	58 00	14.54	17	3.59	59 55	12.10	35	81.52	9 39
11.95	58	25.58	39 38	15.00	51	98.13	46 25	14.54	58	73.49	50 04	13.92	22	4.74	55 48	14.71	43	83.29	4 18
13.21	1 1	26.36	36 16	14.65	56	99.04	41 03	15.77	57 0	74.01	54 13	14.94	24	5.26	53 53	14.65	44	83.63	5 21
12.22	3	26.65	38 30	14.82	59 0	0.03	44 18	14.17	1	74.16	58 42	12.76	30	6.39	54 43	15.77	48	84.43	6 35
15.77	6	27.42	38 59	14.94	4	0.81	41 22	14.65	11	76.31	59 15	15.12	30	6.45	54 02	13.44	50	84.82	5 29
15.00	8	27.85	31 45	15.43	5	1.07	41 25	13.63	11	76.35	58 13	11.58	38	8.18	57 37	15.77	51	85.07	7 26
15.43	56 33	68.07	47 36	15.77	11	2.36	47 25	13.87	17	77.67	55 23	15.00	40	8.71	58 37	14.71	52	85.37	5 41
14.65	38	69.14	44 10	10.96	12	2.50	40 51	15.31	17	77.74	53 49	15.31	42	9.05	50 14	14.65	54	85.67	5 30
14.82	38	69.28	45 58	14.43	12	2.59	46 36	15.77	25	79.47	58 41	12.42	44	9.49	58 09	14.71	57	86.42	1 40
14.82	39	69.48	46 25	14.43	16	3.41	49 02	13.92	27	79.94	56 39	15.43	44	9.49	59 01	15.43	58	86.67	1 52
15.77	44	70.49	41 24	12.42	19	4.09	48 43	14.43	39	82.53	54 55	13.77	46	10.08	59 11	14.38	58 0	87.13	3 26

25 prec. + 58 sec. — 2′ 12″.

301—350				351—400				401—450				451—500				501—540			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.00	58 2	87.35	8 56	14.54	0 36	20.79	3 19	15.00	58 55	98.93	19 46	13.92	56 57	73.40	23 11	15.43	59 13	2.81	20 25
14.65	5	88.07	2 03	11.59	42	22.08	0 25	15.58	56	99.16	17 52	15.25	57 1	74.31	24 38	15.00	13	2.85	21 46
15.25	6	88.33	0 04	15.12	42	22.17	7 17	13.92	59 5	1.02	15 43	15.77	6	75.40	26 56	15.31	15	3.33	24 26
14.71	14	89.97	0 29	14.43	45	22.67	2 17	11.66	5	1.05	17 51	15.00	10	76.37	26 42	15.77	18	3.89	29 32
15.43	15	90.37	0 49	14.43	45	22.68	2 30	15.77	11	2.28	17 37	14.54?	16	77.57	24 33	15.25	24	5.09	26 11
14.12	15	90.37	3 24	14.12	48	23.25	5 46	15.77	23	4.92	17 24	15.77	19	78.31	24 44	14.94	27	5.83	21 18
14.54	17	90.77	1 23	13.30	48	23.43	6 54	15.43	27	5.93	14 38	15.77	23	79.05	26 03	13.87	27	5.90	21 55
13.97	21	91.55	0 01	15.77	50	23.85	5 04	12.42	37	7.91	11 35	12.85	25	79.57	22 26	13.16	36	7.73	25 45
15.31	23	91.98	3 33	14.82	51	23.91	1 10	14.43	39	8.46	12 37	13.39	27	79.99	29 34	14.94	36	7.76	20 14
15.12	23	92.00	6 16	14.27	54	24.65	2 47	15.77	39	8.50	18 45	15.77	28	80.16	20 27	15.77	50	10.82	27 52
13.77	27	92.92	0 47	12.76	55	24.88	4 38	15.58	40	8.69	13 12	14.12	28	80.17	27 24	13.39	52	11.23	22 13
10.51	29	93.30	8 02	14.54	1 4	26.75	2 49	14.12	44	9.40	18 39	15.12	31	80.77	20 39	14.27	52	11.25	29 48
14.17	32	93.87	9 49	14.27	8	27.77	4 02	14.07	46	10.02	19 42	14.02	32	80.97	21 27	13.87	56	12.15	28 58
13.63	33	94.11	9 37	15.00	56 32	68.12	17 03	15.77	50	10.89	11 06	14.82	34	81.49	23 56	15.25	58	12.56	21 07
15.43	33	94.16	8 51	14.38	33	68.24	12 04	15.00	51	11.11	15 36	14.82?	36	81.96	24 43	15.31	0 6	14.13	27 09
14.82	35	94.64	7 54	14.82	36	69.01	13 15	12.42	54	11.57	10 39	14.65	41	82.89	29 00	13.68	11	15.39	21 39
13.77	40	95.67	4 04	14.71	37	69.18	14 55	14.82	56	12.01	14 08	15.77	43	83.48	22 25	14.17	11	15.40	20 46
10.97	43	96.27	7 39	14.71	38	69.25	17 44	14.17	56	12.04	13 07	15.77	47	84.27	20 58	13.87	12	15.44	23 13
15.43	45	96.80	7 07	14.54	45	70.82	14 16	14.94	0 2	13.47	15 11	14.82	48	84.37	28 52	14.02	14	16.01	21 23
14.54	49	97.67	5 28	13.87	48	71.40	13 03	14.54	8	14.61	18 07	15.77	50	84.95	25 33	12.22	15	16.18	27 32
15.43	51	98.09	5 01	14.32	49	71.66	10 17	14.38	10	15.11	14 11	14.94	52	85.36	21 47	15.58	17	16.64	26 00
14.17	54	98.71	0 24	15.12	52	72.30	13 24	12.55	15	16.17	14 44	15.00	53	85.48	23 08	14.71	18	16.73	23 05
10.13	56	99.14	9 48	14.27	53	72.51	16 56	15.77	16	16.38	10 55	14.27	54	85.66	20 11	14.94	18	16.76	29 52
15.77	58	99.54	1 19	14.65	57	73.51	17 06	13.87	16	16.51	10 27	14.82	55	85.94	26 38	14.94	24	18.14	23 50
13.82	59 1	0.24	0 27	15.00	57 1	74.30	15 32	14.82	18	16.94	13 16	14.02	55	85.96	29 19	14.82	26	18.58	26 16
13.87	1	0.26	5 23	15.77	8	75.85	18 41	14.82	22	17.60	18 34	11.23	57	86.36	23 30	15.31	26	18.63	23 40
14.02	2	0.54	8 39	14.27	15	77.31	15 44	15.25	22	17.77	14 36	13.92	59	86.94	25 34	13.68	30	19.45	21 59
14.17	5	1.14	4 40	15.77	20	78.46	11 43	15.00	26	18.66	14 49	15.12	58 8	88.86	20 56	14.38	33	20.04	21 01
14.82	17	3.59	4 47	13.63	22	78.82	12 56	14.82	27	18.84	15 28	13.16	13	89.80	23 46	15.77	36	20.65	24 44
14.38	20	4.26	4 04	15.58	26	79.73	12 32	15.58	30	19.39	15 46	14.82	13	89.87	29 21	15.58	43	22.28	26 46
14.32	24	5.30	9 49	11.19	27	80.01	12 01	14.71	34	20.27	10 35	11.84	16	90.51	29 57	15.77	45	22.54	25 03
15.00	36	7.86	5 07	14.65	30	80.51	12 09	15.43	35	20.48	16 31	15.00	19	91.12	29 06	14.17	47	23.12	29 52
15.77	39	8.38	3 10	14.17	38	82.26	11 43	14.38	38	21.08	16 38	15.00	21	91.57	28 07	13.92	48	23.31	20 27
15.77	43	9.23	4 50	11.95	38	82.30	19 58	15.77	42	21.92	19 13	15.43	24	92.26	28 45	15.25	54	24.47	27 57
14.38	45	9.82	0 01	10.83	38	82.39	15 51	15.77	42	22.01	16 30	13.07	25	92.41	22 16	14.38	57	25.21	20 25
15.77	51	11.04	2 17	10.86	40	82.70	11 32	14.43	44	22.40	14 22	14.71	30	93.43	29 50	15.12	59	25.66	25 24
15.77	58	12.56	0 51	15.06	41	83.01	10 10	14.43	1 0	25.92	15 24	15.00	30	93.55	28 51	14.02	1 0	25.80	29 45
15.31	0 0	13.00	2 05	10.43	46	84.12	10 23	14.02	1	26.05	15 44	14.12	35	94.64	29 47	15.77	3	26.45	24 14
12.42	3	13.64	6 08	15.58	50	84.77	10 23	14.54	4	26.86	16 37	13.21	37	94.98	23 17	14.27	7	27.45	27 49
15.77	3	13.73	0 10	15.77	57	86.46	14 33	15.25	5	27.03	16 53	12.98	39	95.43	20 39	12.42	9	27.82	23 32
12.72	4	13.91	2 17	15.77	58	86.53	15 08	15.77	6	27.20	19 19	14.22	44	96.48	20 12				
12.22	6	14.19	2 08	15.77	58 1	87.24	14 54	15.77	56 34	68.59	24 50	14.54	56	99.21	22 53				
15.31	9	14.85	4 49	14.27	8	88.69	11 45	15.77	43	70.49	29 21	14.38	56	99.21	27 20				
12.63	9	14.91	9 17	15.00	9	88.89	13 27	14.65	44	70.68	27 34	13.92	59	99.73	27 49				
12.02	11	15.32	6 42	15.58	23	92.10	10 50	13.30	45	71.00	22 25	14.94	59 2	0.49	28 14				
15.25	15	16.14	1 31	15.00	27	92.81	16 14	14.54	48	71.53	29 02	15.25	5	1.06	20 56				
14.02	20	17.27	4 35	15.77	27	92.97	16 29	13.53	48	71.55	25 39	13.92	7	1.42	25 44				
14.94	25	18.43	7 22	12.63	28	93.14	17 10	15.77	54	72.90	21 19	15.00	7	1.55	28 31				
15.77	29	19.23	1 28	13.68	32	93.86	14 28	13.39	55	73.10	22 56	14.43	9	1.87	25 20				
15.31	33	20.09	5 23	15.12	42	96.08	16 02	14.65	56	73.29	20 45	13.77	11	2.36	28 08				

25 prec. + 58 sec. — 2′ 12″.

Area 62. Centre for 1900: $17^h\ 55^m + 30^\circ\ 0'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.95	52 57	73.25	31 07	15.15	53 58	86.52	33 45	15.69	54 54	98.72	33 47	14.69	55 41	9.00	32 22	12.39	56 33	20.16	36 34
16.05	57	73.26	33 51	15.19	59	86.68	36 13	15.43	55	98.89	39 21	16.05	43	9.29	30 34	15.53	35	20.56	37 06
16.20	59	73.67	33 44	15.29	59	86.77	34 14	14.73	58	99.62	32 27	13.32	44	9.47	36 08	15.39	35	20.66	31 05
14.16	53 3	74.56	32 29	15.63	54 1	87.25	37 49	16.39	59	99.78	30 21	16.20	44	9.63	32 56	12.57 :	36	20.87	30 37
16.39	3	74.59	34 22	16.39	3	87.53	39 12	16.39	55 1	0.15	31 15	15.29	44	9.65	31 31	16.39	36	20.96	36 43
9.80	4	74.84	30 24	16.20	3	87.62	37 28	16.20	1	0.29	36 32	15.29	47	10.23	32 11	16.05	37	21.09	31 21
14.82	6	75.15	34 10	14.25	4	87.73	32 54	16.05	2	0.42	30 43	16.39	48	10.40	34 43	16.20	38	21.22	30 56
15.43	6	75.23	39 33	16.39	5	88.00	32 17	16.39	4	0.83	33 33	15.95	48	10.51	30 46	14.96	38	21.23	31 32
15.95	9	75.90	34 02	16.39	6	88.27	37 21	14.96	5	0.99	31 18	16.39	50	10.95	35 03	15.39	40	21.78	37 41
16.39	10	76.19	34 46	15.29	6	88.36	33 35	15.29	6	1.40	31 35	16.39	53	11.51	36 50	16.05	41	22.01	39 45
14.60	11	76.31	34 55	14.25	7	88.58	35 14	13.86	7	1.49	36 27	15.43	56	12.17	38 30	16.39	42	22.10	37 37
8.83	12	76.41	33 24	14.73	10	89.05	33 19	13.61	7	1.49	38 03	15.05	56	12.27	38 25	16.39	43	22.46	38 59
16.39	13	76.67	37 04	15.69	11	89.29	33 45	16.20	7	1.54	33 44	15.15 :	57	12.32	32 14	16.39	44	22.51	32 44
13.44	13	76.81	36 20	16.05	11	89.31	37 31	16.39	8	1.69	31 09	16.20	57	12.34	32 29	15.19	44	22.66	32 58
14.51	16	77.39	36 39	15.19	12	89.51	30 53	16.39	9	1.87	35 56	15.79	57	12.35	38 21	12.93	44	22.69	37 39
12.75	19	77.98	36 05	15.69	12	89.57	39 22	13.52	9	1.96	39 23	15.43	57	12.47	30 56	14.60	46	23.00	37 25
16.39	20	78.35	38 26	12.57	13	89.77	35 48	13.65	11	2.31	38 50	14.38	58	12.69	35 02	16.05	46	23.05	31 07
12.75	23	78.98	31 21	15.39	13	89.88	30 40	15.05	12	2.62	38 29	14.96	58	12.69	37 50	13.65	46	23.08	30 05
16.20	25	79.32	37 50	14.60	14	89.94	36 21	16.39	12	2.71	31 19	14.96	59	12.74	31 53	14.96	47	23.29	38 30
15.95	27	79.76	33 44	15.05	14	89.96	36 04	16.39	14	2.97	33 53	15.89	59	12.84	30 18	16.39	48	23.48	36 16
16.39	29	80.15	38 37	14.82	14	90.09	32 34	15.43	14	3.06	33 22	14.25	56 0	12.99	32 55	7.6[1]	48	23.55	34 16
12.57	30	80.32	39 20	16.39	15	90.11	34 27	15.89	15	3.18	39 39	16.39	2	13.45	38 21	13.52	49	23.77	30 37
14.91	30	80.41	37 53	16.39	15	90.19	37 52	16.39	16	3.37	39 09	15.53	2	13.46	34 47	11.88	50	23.98	37 17
11.88	32	80.90	32 37	14.29	17	90.73	34 48	14.60	17	3.62	31 15	15.95	3	13.64	35 16	13.32	52	24.45	35 54
14.16	34	81.35	39 38	14.91	19	91.00	34 50	14.47	19	4.20	35 07	14.51	3	13.75	30 23	13.73	53	24.51	39 19
16.39	35	81.55	35 56	15.69	20	91.33	31 44	15.63	24	5.26	34 35	14.16	4	13.91	38 46	13.44	55	24.98	33 54
11.88	35	81.58	33 14	15.89	21	91.51	36 39	14.96	25	5.47	31 30	12.75	5	14.03	33 17	16.39	56	25.21	38 31
16.39	39	82.45	36 31	16.39	23	91.95	37 21	15.63	26	5.69	33 35	15.63	5	14.21	38 15	13.12	57	25.44	31 53
14.16	40	82.63	34 12	16.05	23	91.99	30 07	16.20	27	5.96	37 41	16.39	6	14.28	33 56	13.52	57	25.47	32 02
16.20	40	82.72	38 52	15.95	25	92.38	34 12	15.89	28	6.04	32 43	9.76	6	14.42	39 37	15.15	58	25.66	39 13
16.05	42	82.94	30 13	16.39	26	92.57	38 53	16.39	28	6.10	37 26	14.96	8	14.84	36 25	15.15	58	25.76	39 21
14.12	42	83.06	39 48	12.75	26	92.70	32 57	14.51	29	6.35	38 10	15.79?	8	14.84	37 54	15.43	57 1	26.25	32 29
16.05	43	83.16	31 12	14.91	28	93.03	38 05	15.89	30	6.47	35 52	16.39	9	14.92	33 57	16.39	1	26.39	33 18
13.52	43	83.35	30 45	15.53	29	93.24	39 31	15.43×	30	6.53	37 58	15.95	9	14.99	32 24	15.95	3	26.77	30 37
15.89	44	83.47	36 38	16.39	30	93.52	36 51	14.69	31	6.66	39 44	15.53	10	15.11	36 31	12.05	4	26.89	36 38
12.93	44	83.57	31 10	15.19	31	93.60	39 24	16.05	31	6.79	38 35	15.53	11	15.44	30 07	16.39	5	27.08	36 15
13.82	45	83.72	36 41	13.94	34	94.41	38 50	14.96	32	7.01	36 32	16.39	12	15.71	31 29	15.89	5	27.26	36 44
15.19	46	83.92	32 55	16.39	35	94.57	31 33	15.39	33	7.24	32 39	16.00	13	15.96	39 50	14.69	9	28.03	35 45
11.88	48	84.31	35 24	16.39	37	95.10	35 48	14.16	35	7.64	32 06	16.39	13	15.97	31 52	14.38	10	28.20	38 30
15.05	49	84.58	35 37	13.86	39	95.39	36 35	13.32	35	7.66	32 18	15.53	14	16.10	37 59	14.91	10	28.29	33 30
12.93	50	84.83	31 29	16.39	41	95.86	38 44	16.39	36	7.85	32 52	15.19	16	16.53	31 28	16.39	11	28.42	31 54
16.39	51	84.93	35 29	16.39	43	96.22	31 54	16.11	36	7.88	39 52	15.89	18	17.02	36 11	14.51	11	28.56	35 48
12.93	51	84.97	37 50	16.20	44	96.52	36 15	15.69	36	7.94	33 45	13.94	21	17.62	33 16	16.39	15	29.37	36 05
16.39	52	85.16	32 24	14.03	44	96.54	31 53	16.39	37	7.97	30 32	15.63	22	17.90	32 33	16.05	17	29.85	33 22
16.39	53	85.43	32 23	13.94	45	96.68	37 22	16.20	38	8.25	30 32	15.39	25	18.48	33 20	14.69	18	30.10	32 46
15.19	54	85.65	39 35	13.61	45	96.71	32 55	13.12	40	8.66	38 44	15.43	28	19.22	30 06	14.73	20	30.54	38 13
15.19	55	85.93	36 02	15.89	48	97.34	34 07	14.91	40	8.67	35 13	15.05	29	19.30	36 29	16.39	21	30.69	36 37
16.39	56	85.98	32 43	15.95	49	97.67	31 10	14.47	41	8.90	31 07	16.39	29	19.37	34 16	15.69	22	30.94	34 08
15.63	56	86.02	34 30	16.39	49	97.69	30 20	14.73	41	8.96	35 54	16.39	30	19.59	39 22	16.20	22	30.98	32 54
16.39	57	86.22	32 54	16.39	52	98.37	37 40	13.12	41	8.97	30 00	15.89	30	19.59	33 24	16.39	23	31.06	33 29

25 prec. + 58 sec. — 0' 10".

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[1] Magn. uncertain, extrapolated.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'	Int. magn.	α	x	y+60'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
16.39	57 23	31.07	33 15	16.39	53 41	82.90	46 23	16.20	54 48	97.30	48 06	13.52	55 49	10.60	46 00	14.47	56 41	22.01	45 48
14.91	23	31.09	31 00	14.96	44	83.53	47 30	14.16	49	97.51	45 18	16.39	49	10.63	40 47	16.39	42	22.09	49 51
15.29	25	31.52	38 19	15.29	45	83.75	47 42	14.82	49	97.68	42 01	12.93	52	11.34	42 55	11.72	42	22.22	42 58
13.12	26	31.72	37 54	12.39	47	84.15	45 48	15.63	51	97.96	41 05	13.12	53	11.55	43 09	15.89	44	22.64	46 03
14.60	26	31.79	30 03	16.39	49	84.50	46 39	15.15	51	98.09	44 33	15.69	57	12.44	46 38	13.01	45	22.73	40 28
13.86	26	31.85	36 32	14.20	49	84.64	40 38	15.95	51	98.10	46 43	14.47	58	12.55	43 06	15.69	46	22.95	47 39
13.52	28	32.16	38 03	16.20	50	84.84	47 39	15.63	51	98.10	41 15	13.52	59	12.81	45 25	14.60	46	23.04	41 41
15.19	29	32.44	35 37	16.39	51	84.98	46 02	16.39	52	98.32	47 21	16.39	56 2	13.35	49 36	14.38	47	23.14	44 21
15.69	30	32.56	34 57	13.52	52	85.22	44 49	15.29	53	98.45	44 31	10.36	2	13.40	41 24	11.47	50	23.85	45 26
14.51	30	32.58	32 29	16.39	53	85.41	48 52	15.39	55	99.01	40 57	13.86	2	13.53	46 15	11.81	53	24.42	40 35
13.52	31	32.92	32 45	13.12	53	85.54	41 36	8.71*	57	99.42	47 09	16.20	4	13.87	40 53	14.91	54	24.74	47 20
12.57	52 56	73.18	40 05	15.39	54	85.72	45 07	16.39	55 1	0.25	44 10	15.89	5	14.18	42 05	15.53	57	25.49	44 12
15.89	58	73.47	46 29	16.05	56	86.04	49 22	16.39	4	0.77	43 31	15.89	5	14.18	48 48	16.39	58	25.65	49 02
15.63	59	73.66	45 40	14.38	54 3	87.70	40 38	15.43	5	1.11	41 25	14.69	6	14.21	41 06	13.94	57 0	25.96	48 12
15.95	59	73.73	44 58	14.96	4	87.77	48 38	15.69	7	1.49	43 50	15.89	6	14.43	49 07	16.39	0	26.01	43 54
15.43	53 0	73.85	41 57	16.39	5	88.03	42 44	14.16	8	1.79	44 30	16.39	7	14.56	46 13	16.39	1	26.22	41 33
14.03	0	73.97	40 28	11.64	7	88.56	41 40	15.74	9	2.02	40 36	15.43	7	14.61	40 00	15.79	3	26.65	43 42
12.22	1	74.09	42 26	16.20	11	89.31	49 20	16.39	11	2.34	47 34	16.20	9	14.92	41 37	15.43	3	26.79	40 24
16.39	2	74.29	40 32	16.39	13	89.73	47 59	16.39	11	2.41	46 39	16.39	11	15.49	47 50	13.32	4	26.89	47 45
16.39	3	74.61	40 42	15.19	14	90.12	44 00	16.20	12	2.57	47 10	15.63	12	15.73	48 48	14.91	5	27.23	43 50
15.39	4	74.91	45 19	16.05	16	90.54	43 50	16.39	13	2.85	42 00	15.29	15	16.23	49 29	15.69	7	27.54	47 45
13.94	6	75.34	41 00	15.43	17	90.61	45 55	16.20	18	3.87	40 32	14.60	15	16.35	47 47	16.20?	8	27.68	47 57
13.12	8	75.59	44 32	15.63	17	90.63	41 36	15.05	19	4.18	48 09	16.39	18	16.82	43 48	16.20	8	27.82	48 07
15.79	8	75.74	44 16	15.39	19	91.01	41 00	15.43	20	4.29	47 28	15.05	18	16.91	47 02	14.34	8	27.89	40 08
12.93	9	75.86	48 01	14.25	20	91.40	49 05	13.86	20	4.31	47 21	15.29	18	17.01	45 26	14.69	9	28.02	48 37
16.05	10	76.15	45 29	14.29	21	91.57	49 05	15.05	21	4.61	40 14	15.43	19	17.08	44 00	16.05	10	28.13	47 14
16.05	11	76.26	48 18	15.63	21	91.60	47 54	15.05	22	4.68	46 16	15.29	20	17.31	42 30	15.39	11	28.34	40 16
12.93	11	76.31	44 59	15.39	24	92.12	48 10	14.69	22	4.83	42 52	15.43	21	17.52	42 14	16.20	12	28.58	49 16
15.39	11	76.35	41 16	16.39	25	92.32	43 04	15.63	25	5.34	47 20	15.79	22	17.83	42 10	14.91	16	29.48	45 34
15.53	12	76.45	47 19	14.73	25	92.40	47 53	16.39	25	5.43	48 12	12.05	24	18.12	44 25	15.69	17	29.79	49 15
15.63	13	76.71	41 20	14.96	25	92.44	42 09	14.96	28	6.11	48 48	16.05	25	18.41	46 33	15.89	21	30.61	44 45
16.39	13	76.86	48 11	16.39	26	92.56	41 52	15.19	29	6.30	41 52	15.79	26	18.58	48 04	15.53	25	31.57	47 42
13.65	14	76.98	49 49	15.19	26	92.67	48 53	15.95	30	6.48	48 39	15.19	26	18.62	47 13	14.51	26	31.61	46 00
15.69	14	77.06	49 21	15.19	27	92.82	40 21	14.47	31	6.83	42 00	15.15	26	18.74	44 53	14.73	26	31.76	43 59
16.39	15	77.14	46 42	16.05	29	93.22	49 54	12.22	34	7.27	49 13	14.47	28	19.03	43 32	15.05	27	31.86	46 37
16.05	15	77.31	43 36	15.95	30	93.52	49 28	14.51	34	7.31	42 08	16.39	28	19.15	48 19	15.69	27	31.97	45 32
13.32	16	77.51	45 34	14.73	31	93.66	48 46	16.20	35	7.66	48 27	16.39	29	19.28	47 29	14.96	29	32.39	45 54
11.90	17	77.61	41 43	15.39	32	93.83	45 02	15.05	36	7.79	48 48	14.38	29	19.33	41 53	15.63	30	32.60	46 43
13.52	19	78.00	45 17	16.20	33	94.18	41 51	15.79	37	7.94	48 37	13.44	30	19.55	41 02	15.15	52 57	73.44	55 16
16.39	22	78.65	45 04	16.39	33	94.19	47 02	12.75	38	8.15	43 37	16.39	31	19.67	45 18	16.05	58	73.50	51 15
13.52	24	79.09	45 11	16.39	36	94.68	46 48	14.91	38	8.25	48 55	16.39	31	19.80	45 49	16.39	58	73.64	59 02
15.29	25	79.34	41 35	15.39	38	95.19	44 57	15.79	39	8.38	43 43	14.29	32	20.00	41 41	14.07	53 0	73.89	57 17
12.75	26	79.57	45 51	13.12	38	95.19	40 38	15.15	39	8.47	48 57	15.79	32	20.04	42 02	16.39	0	74.00	53 35
16.39	29	80.20	47 09	15.15	39	95.35	40 58	14.91	39	8.51	49 27	13.94	33	20.27	45 32	15.19	4	74.79	52 52
16.39	30	80.45	49 04	14.91	42	95.99	46 59	15.79	42	9.10	49 58	14.82	33	20.27	42 28	14.25	4	74.91	55 53
15.43	32	80.98	43 16	15.95	42	96.04	48 15	15.53	42	9.18	49 47	15.05	34	20.35	47 59	13.01	5	75.09	59 49
16.20	33	81.15	42 47	11.88	44	96.56	40 15	15.05	43	9.34	47 58	16.20	35	20.68	47 53	15.63	7	75.48	51 05
15.39	35	81.46	44 11	15.39	45	96.65	45 17	16.39	44	9.46	45 51	13.82	37	21.12	42 32	13.73	7	75.53	55 22
15.79	38	82.16	48 49	14.03	45	96.74	41 20	15.95	46	10.05	41 03	13.12	39	21.53	43 13	16.05	8	75.66	52 36
15.63	40	82.53	45 24	16.39	45	96.81	46 10	15.69	47	10.15	43 52	15.05	40	21.60	49 21	15.15	8	75.69	50 44

25 prec. + 58 sec. — 0' 10".

Area 62.

501—550				551—600				601—650				651—700				701—750			
Int. Magn.	α	x	y+60′	Int. Magn.	α	x	y+60′	Int. Magn.	α	x	y+60′	Int. Magn.	α	x	y+60′	Int. Magn.	α	x	y+60′ y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.69	53 10	76.13	50 28	14.73	54 2	87.35	56 21	14.60	55 4	0.95	55 57	15.89	55 59	12.83	53 30	16.39	56 58	25.50	59 04
14.51	10	76.26	55 15	16.39	3	87.69	54 15	16.39	5	1.04	58 24	13.99	56 0	12.92	59 41	15.63	59	25.86	55 53
13.12	14	76.92	59 19	15.89	3	87.69	57 45	11.88	5	1.12	54 29	16.05	1	13.20	59 04	15.39	57 0	25.94	56 36
15.19	14	77.03	51 58	14.29	7	88.53	51 37	14.25	6	1.19	59 58	15.63	3	13.75	51 24	16.05	0	26.02	59 58
16.39	16	77.41	53 47	16.20	7	88.61	59 20	12.39	6	1.22	50 11	14.47	4	13.80	57 40	16.05	2	26.42	52 37
15.53	16	77.54	55 55	14.82	8	88.75	57 43	15.69	6	1.35	51 51	13.12	4	13.92	57 49	15.69	2	26.51	51 05
13.52	17	77.66	53 07	15.95	9	88.94	58 26	12.93	7	1.50	52 12	13.52	4	13.95	59 22	15.29	5	27.02	58 54
15.79	18	77.98	57 19	15.69	9	88.95	56 38	15.69	10	2.14	54 46	9.89	10	15.06	55 05	15.69	6	27.38	56 19
14.73	20	78.23	53 18	16.05	15	90.17	58 45	13.73	10	2.18	57 32	16.20	10	15.07	53 09	15.53	8	27.79	50 40
13.32	20	78.42	54 45	13.44	16	90.44	51 06	13.12	10	2.26	51 45	16.39	10	15.16	53 19	15.19	10	28.17	59 27
14.16	20	78.42	56 12	15.15	16	90.54	51 45	16.39	13	2.80	51 30	15.53	10	15.20	50 46	16.39	11	28.44	56 44
16.39	21	78.64	57 34	16.05	18	90.81	52 17	16.39	13	2.87	56 20	15.19	11	15.41	51 36	13.12	13	28.85	56 37
15.19	24	79.17	55 31	16.39	18	90.94	54 35	12.22	14	3.14	53 15	15.15	13	15.76	58 49	14.03	14	28.97	57 50
15.79	26	79.61	54 06	15.53	20	91.27	55 11	13.94	15	3.16	52 03	13.12	13	15.84	59 48	16.05	14	29.01	50 41
15.69	26	79.68	55 54	15.05	20	91.34	56 17	15.69	16	3.43	53 46	13.61	13	15.92	53 20	16.20	18	29.99	50 19
16.05	28	79.96	53 48	14.60	21	91.53	56 25	16.05	16	3.45	53 31	15.74	16	16.56	50 16	16.05	19	30.07	55 43
16.20	29	80.21	51 16	15.69	22	91.68	59 12	16.05	16	3.52	50 01	16.20	17	16.76	56 32	15.63	20	30.43	56 19
15.89	29	80.28	58 02	13.52	23	91.94	57 53	16.39	17	3.59	58 05	13.32	18	16.94	57 33	14.64	20	30.44	50 34
16.39	30	80.43	59 09	15.79	23	91.95	51 23	16.39	18	3.79	58 27	15.43	19	17.11	58 03	16.11	24	31.12	50 26
16.39	31	80.64	54 35	16.39	25	92.44	55 22	12.05	18	3.89	55 00	15.69	19	17.16	53 49	15.63	27	31.78	57 11
14.82	32	80.89	59 18	15.10	26	92.52	59 43	14.91	18	3.96	51 11	14.38	19	17.17	58 34	15.79	27	31.90	56 10
16.39	32	80.90	52 10	12.75	26	92.54	50 30	15.69	19	4.06	56 45	15.53	21	17.52	50 20	16.39	28	31.96	54 41
16.39	36	81.79	56 06	16.05	27	92.75	56 07	14.51	19	4.16	50 12	15.15	24	18.20	56 48	14.51	28	32.02	51 21
16.20	38	82.15	59 02	15.69	32	93.82	52 34	16.39	21	4.58	53 03	16.39	25	18.35	55 24	16.39	28	32.02	56 43
16.39	39	82.35	55 20	16.39	32	93.92	57 42	14.69	23	4.90	53 49	15.53	28	19.02	54 44	13.65	29	32.34	52 20
16.20	40	82.68	54 43	16.39	33	94.15	50 42	15.79	24	5.18	58 20	15.89	30	19.43	54 52	14.03	31	32.68	52 27
16.39	43	83.24	50 19	15.43	34	94.35	58 41	16.39	25	5.32	54 34	16.39	30	19.44	51 48	13.12	32	32.92	50 49
16.39	44	83.45	58 15	16.20	37	95.02	59 36	16.05	26	5.69	50 28	14.60	34	20.44	56 10	15.43	32	32.95	53 57
16.20	45	83.68	58 28	16.20	37	95.05	52 24	13.24	27	5.95	52 10	16.39	39	21.41	50 36	16.39	52 55	73.06	9 45
16.39	46	83.86	53 57	15.63	37	95.06	57 56	15.95	29	6.21	55 57	16.05	41	21.92	55 34	15.95	58	73.55	3 46
15.29	46	83.90	52 51	15.29	38	95.18	50 59	15.15	29	6.25	56 22	15.63	42	22.16	51 11	15.53	59	73.82	9 44
16.39	46	83.90	51 28	15.63	38	95.32	52 14	15.79	31	6.62	53 32	15.43	42	22.20	52 38	15.63	53 0	73.99	2 40
16.39	46	84.04	51 16	15.69	41	95.96	51 36	16.39	31	6.72	57 52	15.89	43	22.29	55 00	14.07	0	74.08	4 13
14.25	50	84.73	58 44	12.57	43	96.28	58 29	14.25	32	7.00	54 11	13.12	43	22.31	56 42	16.39	1	74.34	0 10
14.51	50	84.82	50 28	15.69	43	96.29	53 26	14.47	34	7.48	52 45	15.43	44	22.62	55 03	14.51	3	74.67	7 41
13.52	50	84.86	54 02	15.79	43	96.32	57 49	10.16	36	7.69	55 30	16.39	45	22.78	50 45	11.97	3	74.69	7 08
14.69	51	85.06	51 02	12.05	44	96.52	52 02	12.39	37	8.01	54 24	15.89	46	22.93	59 57	16.20	3	74.77	2 24
15.69	51	85.13	54 46	16.20	45	96.74	52 39	15.53	39	8.43	59 56	16.05	47	23.18	57 01	13.12	6	75.25	0 38
12.93	52	85.27	55 19	11.88	46	96.92	51 09	14.29	40	8.60	57 37	16.39	50	23.78	52 40	16.20	7	75.50	3 12
15.89	52	85.37	52 58	13.61	46	96.92	50 51	11.79	41	8.83	58 08	13.52	50	23.78	54 42	14.29	8	75.75	1 03
15.84	53	85.57	59 54	14.96	47	97.18	50 28	15.79	45	9.78	54 08	15.79	50	23.91	52 52	12.39	8	75.84	1 16
14.91	54	85.69	51 50	15.63	47	97.25	58 50	15.63	46	9.92	56 33	16.05	50	23.91	50 22	16.39	9	76.06	1 20
16.20	54	85.73	55 47	15.39	48	97.30	54 01	15.79	46	9.97	51 37	15.63	51	24.06	51 05	15.89	10	76.21	7 30
13.73	54	85.76	59 15	16.05	50	97.72	58 05	15.69	47	10.21	56 35	16.20	52	24.34	57 55	11.75	10	76.30	9 54
13.57	55	85.85	50 20	15.29	50	97.86	53 17	14.82	47	10.22	50 28	16.20	53	24.43	53 59	13.82	11	76.42	8 57
15.05	57	86.28	56 02	13.12	52	98.28	58 05	16.39	50	10.75	56 22	16.39	54	24.77	57 44	16.39	12	76.64	1 36
16.39	58	86.49	50 06	16.39	53	98.44	59 16	16.20	50	10.77	58 48	16.20	55	24.93	52 48	14.42	14	77.13	9 40
13.82	59	86.78	56 03	11.88	59	99.74	55 22	12.05	54	11.81	53 40	16.39	56	25.11	51 19	14.73	18	77.89	1 29
16.39	59	86.87	52 11	10.94	55 2	0.37	51 30	14.25	56	12.10	55 09	16.20	56	25.22	54 08	16.39	20	78.44	1 41
15.95	54 1	87.19	57 07	13.52	2	0.38	50 43	13.48	58	12.47	50 39	15.63	57	25.45	51 18	12.75	22	78.73	7 15

25 prec. + 58 sec. — 0′ 10″.

751—800				801—850				851—900				901—950				951—1000			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.57	53 22	78.74	0 55	12.93	54 18	90.96	7 58	14.73	55 14	3.02	4 35	16.39	56 8	14.79	3 51	16.20	56 50	23.69	0 11
16.39	27	79.80	3 45	15.48	19	91.03	0 10	14.96	16	3.35	2 38	15.19	9	14.96	9 46	14.29	50	23.86	8 18
16.39	27	79.98	4 54	16.39	20	91.24	2 51	16.39	17	3.75	9 55	15.05	10	15.06	5 24	15.95	51	24.10	2 02
14.29	28	80.10	5 35	16.39	20	91.46	8 18	15.53	19	4.05	8 34	15.69	10	15.16	6 51	15.15	53	24.49	8 04
14.47	29	80.26	4 44	16.39	21	91.58	6 03	14.96	19	4.05	3 00	15.63	11	15.28	1 12	15.19	56	25.18	5 51
14.60	30	80.57	5 02	16.39	22	91.71	0 32	15.29	20	4.23	2 11	16.05	12	15.51	5 16	11.88	57	25.26	3 03
15.43	32	81.06	6 55	15.95	22	91.71	8 35	15.34	21	4.45	9 30	14.25	14	15.94	5 49	16.00	57 2	26.31	0 30
16.39	34	81.43	2 00	15.69	25	92.41	9 28	15.69	21	4.57	1 31	13.24	15	16.14	0 28	14.47	3	26.67	5 56
15.43	36	81.77	2 29	13.94	26	92.63	6 57	16.39	22	4.65	9 28	15.19	16	16.48	2 17	16.39	4	26.92	1 36
15.79	36	81.94	3 31	16.39	27	92.80	9 17	16.20	22	4.82	7 03	13.32	17	16.72	9 14	16.05	5	26.94	5 33
13.52	37	81.98	0 10	15.69	30	93.50	1 15	12.39	22	4.84	0 18	15.05	18	16.95	0 26	15.79	5	26.97	2 25
12.05	37	81.99	3 24	15.89	30	93.62	7 02	16.39	25	5.32	0 10	14.60	19	16.99	6 36	11.88	5	27.06	8 18
14.47	37	82.07	2 32	14.82	31	93.66	5 08	16.39	25	5.38	8 25	16.20	19	17.00	1 41	15.53	6	27.33	8 32
14.51	38	82.32	9 35	15.53	31	93.68	4 57	14.96	26	5.51	8 07	16.39	19	17.10	6 21	15.43	7	27.57	3 27
16.05	40	82.65	9 15	14.03	31	93.74	6 30	15.39	27	5.74	5 49	16.20	19	17.18	6 05	14.03	8	27.77	3 58
12.75	41	82.92	7 54	16.39	32	94.00	0 43	15.34	27	5.92	0 04	15.39	21	17.43	5 10	15.79	9	27.83	1 28
15.43	43	83.29	8 54	14.38	33	94.22	3 08	14.73	28	5.99	2 12	15.05	21	17.44	2 04	15.89	12	28.55	7 57
15.89	44	83.48	8 21	15.79	36	94.88	8 16	15.39	28	6.11	4 40	16.39	21	17.58	1 28	14.60	15	29.10	1 25
15.79	45	83.81	2 29	16.20	38	95.21	9 32	13.20	30	6.48	2 18	14.69	23	18.04	6 39	16.20	16	29.40	0 00
16.05	48	84.45	1 35	15.39	38	95.30	8 24	13.32	31	6.74	5 29	16.39	24	18.10	3 01	15.89	16	29.43	9 27
16.39	49	84.58	8 47	16.39	38	95.33	4 15	14.47	31	6.75	1 12	15.43	24	18.19	2 17	15.95	17	29.67	5 02
14.29	49	84.64	7 30	13.52	42	96.07	5 45	12.05	33	7.16	0 28	15.05	26	18.54	2 49	15.63	17	29.70	5 15
15.63	50	84.81	9 20	15.53	42	96.07	4 59	15.43	34	7.43	9 38	15.95	27	18.76	0 20	12.05	18	29.94	7 14
15.63	50	84.91	0 18	16.20	43	96.24	0 27	11.88	34	7.47	5 57	16.05	27	18.84	8 29	16.39	18	29.94	0 46
14.51	52	85.21	3 25	15.05	44	96.54	7 23	15.19	35	7.49	6 56	16.39	27	18.91	5 19	15.05	19	30.00	0 53
15.63	53	85.47	7 12	14.82	45	96.78	9 36	14.87	35	7.56	9 58	16.39	29	19.20	0 27	16.20	19	30.06	8 01
15.19	54	85.64	5 55	11.68	46	96.93	7 02	11.01	40	8.67	1 04	16.39	30	19.53	4 55	16.39	19	30.15	9 17
15.05	55	86.03	1 42	15.63	47	97.13	3 28	16.39	41	8.85	3 27	15.63	31	19.79	5 19	14.16	20	30.20	2 08
15.79	56	86.15	1 22	14.96	48	97.39	0 18	15.69	41	8.90	2 49	15.53	32	19.88	7 32	16.05	23	30.84	6 05
14.73	56	86.18	2 31	15.63	52	98.29	4 36	12.39	41	8.92	0 02	16.39	33	20.22	4 27	16.39	23	31.02	0 48
13.94	59	86.70	5 49	14.03	55	98.83	3 45	13.52	42	9.03	5 07	14.96	34	20.28	0 40	14.56	24	31.13	9 37
15.95	59	86.80	6 14	15.95	56	99.06	3 04	14.69	44	9.50	9 20	16.39	35	20.52	8 58	16.39	27	31.73	3 53
16.39	54 0	87.03	5 46	12.57	56	99.15	4 04	15.43	46	10.04	8 27	15.53	35	20.53	2 11	13.32	29	32.15	3 04
16.20	0	87.04	1 40	13.73	57	99.32	6 38	16.39	47	10.08	3 30	14.73	35	20.57	2 09	13.32	32	32.82	0 54
13.86	0	87.10	0 41	15.69	58	99.64	1 23	15.43	48	10.33	6 47	11.29	38	21.09	2 06	14.87	32	32.95	9 29
15.63	2	87.41	2 20	14.25	55 0	99.89	8 01	16.05	48	10.34	9 37	15.00	39	21.32	9 43	12.93	52 56	73.12	16 28
15.63	2	87.41	1 29	14.60	0	99.96	4 59	15.19	48	10.36	8 29	16.20	40	21.54	5 51	16.39	58	73.55	19 35
15.95	5	88.06	9 46	16.39	1	0.32	7 08	14.60	49	10.56	1 22	14.91	40	21.70	8 10	14.51	58	73.58	13 08
16.20	6	88.30	1 02	12.57	2	0.46	7 47	14.82	50	10.89	4 43	15.15	42	21.97	2 42	13.94	53 1	74.25	14 38
15.89	7	88.59	2 19	16.39	3	0.58	7 16	15.43	51	11.07	6 48	14.91	43	22.18	3 06	15.79	2	74.63	14 02
14.03	8	88.69	7 51	16.39	6	1.37	2 42	15.53	55	11.88	5 20	14.96	43	22.20	5 54	16.39	3	74.67	16 03
15.43	10	89.11	2 31	16.39	8	1.67	1 38	16.20	57	12.23	6 01	9.96	44	22.46	8 25	14.96	5	75.21	13 57
13.32	10	89.23	1 38	15.84	8	1.81	9 34	15.69	59	12.84	9 10	16.39	44	22.55	0 31	14.82	5	75.26	17 56
12.22	11	89.37	8 23	16.39	9	2.00	2 21	16.39	56 1	13.13	9 28	16.05	45	22.64	1 08	15.69	7	75.68	18 12
15.63	12	89.57	1 44	15.95	9	2.00	5 51	15.89	1	13.16	6 08	15.69	45	22.73	1 20	11.88	9	76.01	11 23
14.38	12	89.60	5 57	15.79?	10	2.08	3 30	16.20	2	13.49	9 40	16.20	46	22.87	6 00	14.03	9	76.11	15 32
16.39	14	90.05	5 25	16.39?	11	2.32	2 02	15.05	3	13.61	8 06	13.32	47	23.06	7 01	15.43	10	76.15	18 18
15.43	14	90.06	2 38	15.39	11	2.43	4 55	12.93	4	13.84	6 41	16.39	48	23.28	0 42	11.90	11	76.37	12 42
16.20	15	90.36	6 45	7.20 1)	13	2.77	3 23	15.43	5	14.01	6 00	14.73	48	23.44	6 28	13.94	11	76.38	11 37
11.88	16	90.39	8 11	15.05	13	2.90	9 26	15.39	8	14.67	3 45	16.05	49	23.50	1 10	13.73	11	76.56	12 49

1) Duplex. According to Pickering photogr. magnitudes are 7.76 and 8.19; combined magnitude 7.20.

25 prec. + 57 sec. — 0′ 10″.

1001—1050				1051—1100				1101—1150				1151—1200				1201—1250			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.39	53 14	77.22	18 17	16.05	54 24	92.24	11 16	14.51	55 15	3.23	17 16	16.39	55 56	12.02	17 27	16.05	56 51	23.92	18 59
15.63	15	77.31	15 02	16.39	25	92.44	10 53	14.87	15	3.34	10 08	12.39	58	12.47	17 53	14.51	52	24.16	13 39
15.39	15	77.34	11 48	13.12	25	92.44	13 44	15.69	16	3.35	11 45	16.39	56 5	14.07	16 32	15.79	54	24.56	19 02
16.39	16	77.54	16 58	15.29	26	92.55	15 38	13.86	16	3.38	13 30	16.20	6	14.28	13 37	16.39	54	24.59	18 22
14.60	16	77.64	18 22	15.19	26	92.68	13 36	15.69	17	3.62	12 53	14.96	8	14.71	18 09	15.89	54	24.70	13 35
15.89	19	78.15	17 28	16.20	26	92.69	13 06	16.39	17	3.73	16 52	14.96	10	15.01	14 17	11.18	55	24.83	19 09
15.69	20	78.50	13 03	16.20	27	92.79	15 26	10.14	18	3.85	14 26	14.60	10	15.13	17 03	15.95	58	25.44	18 23
15.43	21	78.53	18 30	16.20	28	92.98	15 52	16.39	19	4.02	19 23	16.39	10	15.15	12 57	14.82	57 2	26.30	15 01
13.32	24	79.19	15 15	15.05	29	93.38	13 09	16.39	19	4.06	15 16	15.69	10	15.18	17 16	14.96	2	26.37	11 07
16.39	25	79.56	10 45	15.05	29	93.40	10 10	14.82	19	4.14	12 29	13.52	11	15.29	15 23	15.89	2	26.38	19 23
9.39	30	80.59	18 17	15.29	30	93.42	14 30	13.73	19	4.14	19 40	15.95	11	15.41	14 02	15.29	2	26.45	16 00
16.39	32	80.93	13 24	15.43	30	93.47	10 50	16.05	20	4.21	11 11	15.84	12	15.61	10 05	15.15	3	26.64	11 38
15.19	38	82.22	14 05	15.63	30	93.52	17 25	12.57	20	4.34	13 22	15.43	13	15.70	14 02	15.95	5	27.07	14 18
16.39	39	82.44	13 39	15.89	31	93.71	14 07	11.88	21	4.45	18 31	16.20	13	15.78	10 12	13.65	8	27.55	12 26
16.39	46	84.01	18 54	16.05	32	93.84	16 43	14.60	22	4.78	11 56	14.91	14	15.99	14 16	16.39	8	27.56	18 05
16.39	47	84.19	11 21	15.89	32	93.90	18 27	16.20	23	4.91	14 31	15.19	15	16.22	11 09	11.88	8	27.69	12 01
16.39	48	84.35	12 27	15.63	33	94.07	18 14	13.65	23	4.96	17 02	16.39	15	16.28	13 47	16.39	8	27.71	16 35
13.32	48	84.47	14 25	15.05	34	94.39	15 06	15.05	23	5.02	15 51	13.12	16	16.53	11 46	15.95	11	28.24	10 38
15.79	48	84.56	17 07	4.80[1]	40	95.76	11 55	15.79	24	5.14	15 34	15.39	18	16.87	19 17	16.39	11	28.38	10 15
15.63	50	84.77	12 58	15.43	42	96.13	13 36	15.69	24	5.27	19 01	15.05	19	17.10	18 55	16.39	12	28.52	18 35
16.39	51	85.06	15 10	16.20	42	96.15	19 15	15.53	24	5.29	18 02	15.63	20	17.32	10 51	14.69	14	28.86	12 58
15.29	53	85.51	16 12	11.88	43	96.26	18 10	15.43	25	5.45	15 26	13.24	24	18.06	19 12	16.20	18	29.83	19 40
16.20	53	85.53	18 55	16.05?	43	96.29	10 39	15.79	25	5.48	12 46	15.89	24	18.15	19 34	12.57	19	29.96	17 31
14.07	54	85.73	16 42	15.63	44	96.62	16 45	15.89	26	5.54	15 18	16.05	26	18.46	12 01	15.69	20	30.24	12 40
16.39	54	85.81	13 37	15.29	45	96.66	14 51	14.60	26	5.63	15 49	15.69	27	18.72	12 13	11.00	21	30.46	10 15
11.43	55	85.94	14 12	14.96	47	97.11	19 24	12.57	29	6.19	13 23	14.96	27	18.77	19 10	11.95	22	30.71	19 34
14.29	55	85.97	10 43	15.43	47	97.11	11 41	13.65	29	6.21	16 08	16.39	27	18.88	18 17	16.39	25	31.27	18 52
16.39	56	86.16	10 06	16.05	49	97.56	10 25	16.39	29	6.25	18 54	15.69	28	18.91	18 03	16.39	26	31.58	14 36
14.82	57	86.49	18 05	16.39	50	97.94	13 08	15.53	30	6.55	13 58	16.39	28	18.97	13 17	16.39	27	31.75	13 32
15.19	58	86.64	10 42	11.55	51	98.00	16 04	16.05	30	6.56	12 39	16.39	30	19.44	10 17	13.12	28	31.85	14 52
15.19	58	86.66	11 34	15.43	55	98.90	18 53	14.73	31	6.77	15 31	16.39	31	19.71	19 23	15.89	29	32.16	14 36
14.96	59	86.73	16 52	11.33	56	99.06	14 09	12.22	33	7.14	17 21	16.39	32	19.87	13 21	15.89	31	32.62	11 44
14.73	59	86.75	14 47	16.39	59	99.70	11 38	16.39	36	7.80	13 58	15.29	32	19.94	12 31	16.39	32	32.88	12 58
15.79	54 1	87.24	18 14	14.73	55 0	0.02	14 55	13.52	38	8.18	11 15	14.82	33	20.18	17 17	14.73	52 56	73.19	27 35
16.39	4	87.93	14 50	16.39	1	0.16	19 17	16.20	38	8.32	16 13	16.20	34	20.21	19 50	16.39	56	73.26	20 26
16.20	5	88.05	17 20	14.91	2	0.37	15 14	16.20	39	8.39	14 53	16.39	34	20.26	19 06	15.79	56	73.26	25 44
15.15	6	88.29	12 28	11.83	3	0.60	18 47	16.39	40	8.61	16 41	14.91	36	20.69	16 54	14.38	58	73.64	25 48
15.69	8	88.70	13 17	15.43	3	0.63	16 01	13.52	41	8.87	16 01	12.05	36	20.72	15 27	15.53	53 0	74.05	29 22
16.20	8	88.81	10 16	14.16	4	0.83	17 00	11.88	42	9.05	16 50	15.53	37	20.96	16 26	13.44	1	74.34	22 10
15.69	9	89.00	18 26	16.39	5	1.15	19 24	15.63	45	9.64	14 51	16.39	37	20.99	16 36	14.96	2	74.52	22 07
13.86	9	89.05	15 11	15.63	5	1.18	17 28	15.43	45	9.64	14 11	15.53	38	21.10	10 40	14.69	3	74.84	26 00
11.88	12	89.66	18 26	15.69	8	1.70	11 46	14.16	45	9.73	15 39	16.39	40	21.49	14 51	14.96	4	74.90	24 02
10.13*	12	89.69	10 17	13.73	8	1.77	17 25	15.53	45	9.79	18 44	14.96	41	21.81	15 13	16.39	8	75.91	27 34
16.39	13	89.77	11 07	16.20	9	1.95	19 23	15.19	46	10.03	11 07	15.19	41	21.85	17 20	15.15	8	75.94	22 14
15.89	16	90.46	11 04	13.32	9	1.96	18 49	15.39	48	10.33	11 09	14.91	43	22.19	12 15	13.12	9	76.00	26 16
14.91	16	90.52	10 37	16.39	10	2.06	18 12	15.19	49	10.52	13 31	13.82	46	22.99	15 10	16.20	12	76.65	20 18
16.20	17	90.61	12 17	14.69	11	2.34	18 18	10.56	49	10.52	17 13	12.22	47	23.18	13 44	16.39	13	76.94	28 08
15.15	17	90.77	12 17	15.05	12	2.61	14 58	15.05	50	10.72	11 39	15.43	48	23.38	18 15	13.52	14	77.22	27 46
13.44	20	91.29	13 16	12.05	13	2.82	14 52	16.05	54	11.65	15 03	14.82	50	23.75	13 17	14.73	21	78.57	25 05
15.69	20	91.37	12 29	16.39	14	3.13	12 32	15.89	55	11.80	10 31	16.39	50	23.83	18 03	16.39	24	79.34	26 07

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[1] Vis. magn. from Harv. Ann. **50** reduced to photogr. magn. by Harv. Ann. **71**, I p. 7.

25 prec. + 57 sec. — 0′ 10″.

1251—1300				1301—1350				1351—1400				1401—1450				1451—1471			
Int. magn.	α	x	y+0'	Int. magn.	α	x	y+0'	Int. magn.	α	x	y+0'	Int. magn.	α	x	y+0'	Int. magn.	α	x	y+0'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.19	53 25	79.55	20 16	15.53	54 23	92.02	24 35	14.96	55 9	1.92	29 12	16.20	55 58	12.57	25 54	15.95	57 6	27.23	20 10
15.15	26	79.69	21 58	12.93	23	92.02	22 10	15.89	9	1.95	27 41	16.39	59	12.67	29 54	14.51	7	27.31	22 51
15.19	26	79.72	29 43	15.89	23	92.10	23 04	15.29	9	1.97	22 14	16.20	56 5	14.10	27 03	16.39	7	27.40	26 29
16.39	27	80.04	27 55	16.20	25	92.38	21 27	15.69	10	2.26	27 26	13.32	7	14.39	21 00	14.82	7	27.40	22 41
16.39	28	80.22	28 47	9.81*	26	92.57	28 43	15.29	11	2.41	28 12	15.43	9	14.97	23 41	15.39	7	27.44	28 18
13.73	30	80.61	29 02	14.38	26	92.60	25 42	16.39	11	2.44	28 39	15.69	10	15.06	26 18	15.79	8	27.70	23 44
16.39	30	80.71	21 37	16.05	27	92.83	27 34	15.89	13	2.85	27 43	14.69	10	15.20	23 07	14.82	10	28.01	22 29
13.52	32	80.93	22 05	14.82	28	93.07	24 10	15.69	15	3.18	23 09	14.96	14	15.85	21 45	14.91	11	28.26	23 58
16.39	33	81.18	27 13	12.75	29	93.27	26 11	15.63	15	3.19	26 01	14.47	14	15.93	20 26	14.82	11	28.26	22 49
16.05	34	81.35	23 24	13.52	29	93.40	25 11	16.20	15	3.20	21 54	9.49	16	16.48	24 45	15.79	11	28.32	20 04
16.05	34	81.51	23 42	15.63	32	93.87	21 55	16.39	15	3.26	23 04	14.03	17	16.68	29 21	15.63	13	28.72	29 57
15.29	34	81.55	21 48	14.73	33	94.12	24 24	14.60	16	3.50	26 38	9.81	17	16.69	25 11	14.60	16	29.35	26 34
14.73	36	81.85	23 57	16.05	33	94.23	21 09	16.20	20	4.39	25 58	15.19	18	16.76	23 01	15.63	16	29.40	28 20
14.69	38	82.22	21 05	16.39	33	94.27	20 34	16.39	21	4.50	29 36	15.53	18	16.91	27 38	16.39	17	29.55	21 17
15.74	38	82.36	20 22	16.39	34	94.37	24 00	16.20	23	4.88	21 47	14.91	21	17.42	22 36	16.20	17	29.62	21 08
14.69	40	82.71	22 37	16.05	34	94.38	26 37	15.43	23	4.97	28 39	13.52	22	17.79	24 21	15.15	18	29.74	28 51
14.29	42	83.12	21 50	14.29	34	94.38	24 56	13.73	26	5.50	22 55	16.39	23	17.88	22 55	15.63	21	30.41	20 36
15.69	45	83.87	23 06	16.20	35	94.70	27 04	15.63	30	6.41	22 38	14.60	23	17.92	25 56	13.44	24	31.07	22 59
16.39	47	84.18	28 56	16.39	36	94.77	23 15	16.39	30	6.50	29 59	11.17	24	18.03	24 59	16.39	26	31.58	20 07
16.39	47	84.21	26 09	15.63	37	95.02	29 31	15.53	31	6.63	28 54	15.29	24	18.17	25 31	13.65	27	31.72	24 05
15.63	47	84.31	27 20	15.89	37	95.14	26 34	16.20	33	7.12	23 07	15.53	24	18.19	22 32	14.38	32	32.71	23 34
15.15	49	84.68	23 06	15.53	38	95.29	27 46	16.39	34	7.24	23 56	14.82	25	18.30	28 26				
15.53	50	84.83	20 44	13.82	39	95.47	26 04	16.39	35	7.53	26 24	16.39	26	18.45	22 24				
16.05	50	84.99	25 10	15.19	39	95.57	25 45	16.39	36	7.75	24 25	14.25	28	18.96	21 27				
14.96	50	85.01	26 11	15.69	42	96.20	25 39	14.96	40	8.72	25 56	15.05	32	19.87	29 03				
15.39	53	85.50	27 34	13.82	42	96.22	21 22	13.94	41	8.82	28 58	15.79	32	19.88	28 04				
13.32	54	85.87	22 01	15.29	45	96.81	20 30	16.39	41	8.87	26 16	16.39	33	20.03	21 48				
15.15	55	85.95	29 47	15.15	46	96.91	21 56	15.05	42	8.99	29 52	15.15	34	20.29	29 05				
14.51	55	86.00	25 20	13.32	47	97.21	21 35	14.29	42	9.15	28 27	15.69	36	20.68	26 55				
15.15	57	86.40	28 16	14.60	49	97.54	21 21	14.73	44	9.52	21 05	15.69	36	20.70	27 58				
15.39	57	86.51	27 10	16.39	49	97.57	26 50	12.05	45	9.61	25 08	15.53	37	20.93	29 33				
12.05	58	86.69	21 21	15.05	50	97.73	22 00	15.53	46	9.89	26 23	15.95	37	20.96	20 22				
14.69	54 1	87.33	23 05	13.73	50	97.90	26 16	16.20	46	9.98	24 15	13.12	39	21.26	29 10				
11.88	3	87.63	24 21	14.29	55	98.85	23 41	15.43	48	10.24	20 37	14.73	39	21.38	23 55				
16.39	4	87.85	22 02	11.21	55	98.88	29 03	11.90	48	10.43	25 25	15.39	40	21.52	26 20				
15.05	7	88.55	21 04	15.39	57	99.34	20 57	16.05	50	10.72	20 17	12.75	41	21.85	20 49				
16.39	8	88.76	29 32	15.89	57	99.45	21 30	15.05	51	11.09	22 59	15.19	42	21.93	22 37				
11.33	9	88.96	22 03	15.95	58	99.51	23 33	14.91	52	11.11	29 41	16.20	43	22.20	22 38				
11.75	10	89.20	29 57	16.39	58	99.63	23 17	12.75	53	11.37	23 03	15.43	46	22.77	29 16				
14.29	10	89.22	23 33	12.05	58	99.65	24 19	16.39	54	11.71	27 29	15.43	47	23.02	27 01				
14.60	10	89.33	27 25	16.39	59	99.87	27 14	15.79	54	11.71	21 57	14.51	47	23.13	25 16				
16.39	13	89.88	27 01	14.82	55 0	0.11	24 38	14.60	55	11.85	23 57	15.05	48	23.35	27 34				
13.32	13	89.95	26 21	16.05	2	0.33	22 46	15.63	55	11.87	25 40	16.05	51	23.96	28 34				
16.39	15	90.38	23 15	10.65	2	0.41	22 02	16.39	56	12.03	26 25	13.32	54	24.54	23 11				
12.39	16	90.41	21 51	13.32	3	0.71	24 13	12.05	56	12.11	28 33	15.29	54	24.64	29 23				
15.19	17	90.68	21 58	14.96	5	0.99	21 50	15.89	57	12.36	22 50	11.88	55	24.77	23 41				
15.79	18	90.88	21 20	12.22	7	1.59	27 34	15.43	58	12.45	29 22	15.89	56	24.97	24 30				
16.39	19	91.15	22 06	16.39	8	1.63	21 15	16.39	58	12.48	26 11	15.05	58	25.55	20 16				
15.34	21	91.67	20 18	16.39	8	1.63	20 47	15.63	58	12.49	23 08	15.69	57 5	26.92	21 28				
15.53	22	91.85	27 16	12.05	9	1.92	29 22	14.73	58	12.51	25 23	15.43	6	27.16	25 33				

25 prec. + 57 sec. — 0′ 10″.

Area 63. Centre for 1900: $19^h\ 0^m + 30^\circ\ 0'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.81	58 37	82.00	46 16	14.84	59 25	92.47	42 00	11.12	0 8	1.63	40 39	14.54	1 4	13.91	40 19	12.99	58 52	85.15	58 06
10.66	37	82.05	45 23	15.58	26	92.65	49 54	15.24	11	2.47	43 09	13.40	5	14.11	43 30	14.95	52	85.15	54 53
14.95	38	82.11	48 39	14.35	26	92.65	46 46	11.12	12	2.66	47 13	11.02	5	14.16	44 18	11.12	52	85.37	51 50
15.12	39	82.32	49 55	14.58	29	93.25	48 36	15.58	13	2.76	41 21	15.24	5	14.17	41 10	14.68	53	85.42	59 11
15.58	42	83.18	43 18	14.44	29	93.26	44 23	10.48	14	2.98	48 27	14.44	6	14.35	45 50	14.01	53	85.52	51 36
11.95	44	83.45	47 38	15.07	31	93.68	41 59	15.24	14	2.99	42 07	14.79	8	14.67	44 28	15.58	54	85.70	55 43
15.58	44	83.45	49 12	13.89	32	93.97	47 33	14.01	14	3.07	42 27	15.24	8	14.81	44 26	13.89	55	85.88	54 54
14.84	44	83.47	43 17	12.99	32	94.02	42 25	15.58	15	3.24	42 57	14.95	10	15.11	40 41	14.68	58	86.55	50 28
15.39	46	83.85	44 56	14.44	35	94.48	40 59	15.12	15	3.32	47 41	14.35	10	15.27	43 49	15.58	58	86.64	58 23
15.39	47	84.11	47 50	14.09	36	94.69	47 56	15.39	16	3.43	46 00	12.83	12	15.61	45 39	15.39	59	86.83	53 46
12.24	47	84.24	45 25	14.13	36	94.70	44 05	14.84	16	3.53	45 13	15.12	12	15.62	47 51	14.39	59 0	86.90	50 02
15.58	48	84.33	47 22	14.68	36	94.88	49 39	12.68	16	3.54	46 18	15.12	14	16.02	48 15	15.24	0	87.01	52 43
15.12	48	84.36	43 10	15.58	37	94.94	43 48	10.90	18	3.95	48 56	15.58	16	16.49	44 25	14.58	0	87.04	58 21
15.39	49	84.59	40 49	15.58	38	95.19	42 57	14.79	21	4.54	41 46	14.79	17	16.63	40 43	15.24	1	87.16	50 41
14.68	49	84.68	41 28	14.09	39	95.38	44 20	15.58	22	4.72	42 39	15.07	17	16.64	42 06	14.35	2	87.48	57 17
15.58	50	84.83	48 45	15.58	39	95.53	43 37	15.58	22	4.87	48 52	15.58	17	16.65	44 16	15.58	8	88.65	53 03
14.13	51	84.93	42 04	15.58	40	95.70	48 16	15.58	23	4.94	44 05	14.79	17	16.70	43 23	14.54	8	88.82	50 39
15.12	52	85.21	41 28	15.58	40	95.72	44 24	10.96	23	4.94	45 48	14.13	17	16.77	40 59	15.58	10	89.22	58 35
15.58	53	85.41	42 37	11.62	42	95.98	49 48	11.40	24	5.15	48 26	15.07	18	16.93	42 45	14.68	11	89.32	59 33
14.44	54	85.68	42 59	11.81	43	96.26	49 20	15.39	25	5.42	49 46	14.13	19	17.05	48 17	13.24	15	90.20	52 28
14.09	57	86.31	46 00	14.30	43	96.28	46 58	15.58	25	5.43	46 13	15.12	20	17.33	46 35	15.58	17	90.68	55 06
14.68	59	86.83	48 34	14.68	43	96.32	44 56	14.68	26	5.72	44 22	15.58	23	18.03	40 52	15.24	17	90.74	56 12
12.68	59	86.86	43 17	15.39	44	96.52	43 55	14.01	27	5.78	48 45	12.53	23	18.04	42 39	14.84	19	91.02	58 27
15.39	59 1	87.12	46 07	12.24	44	96.54	41 32	13.89	28	6.08	48 49	15.58	23	18.08	44 20	14.01	19	91.13	54 29
14.58	1	87.21	47 43	13.30	45	96.64	49 03	15.24	28	6.12	47 34	15.07	25	18.45	43 53	15.07	19	91.17	50 51
13.46	3	87.56	43 52	13.89	45	96.66	43 17	15.12	29	6.36	49 42	15.58	26	18.57	42 24	9.15*	20	91.24	52 44
14.21	3	87.73	49 02	14.58	45	96.75	44 19	12.53	34	7.43	48 02	12.68	28	19.05	46 13	14.09	20	91.29	57 33
13.74	4	87.93	40 10	14.54	46	96.92	46 01	14.84	37	7.94	40 03	14.30	29	19.30	47 36	13.93	21	91.47	52 19
14.09	6	88.26	46 38	15.58	46	97.00	41 43	15.58	38	8.20	48 45	15.58	30	19.62	44 08	14.21	21	91.55	57 41
15.24	7	88.45	45 39	15.39	48	97.42	49 13	14.13	39	8.50	43 26	15.24	36	20.79	43 48	13.81	21	91.56	55 33
14.26	9	88.98	49 34	15.24	49	97.57	40 44	14.44	41	8.85	42 54	15.58	37	21.00	45 08	14.84	21	91.64	54 37
14.58	9	89.03	44 51	13.53	49	97.65	45 26	13.74	41	9.00	45 37	15.07	37	21.07	46 24	15.58	22	91.81	51 27
15.07	11	89.30	42 32	15.07	50	97.76	45 11	15.58	42	9.02	49 15	13.56	40	21.68	46 43	15.07	22	91.87	58 40
13.63	11	89.34	46 24	13.36	51	97.95	49 14	14.21	43	9.31	42 29	15.58	58 37	82.03	59 01	14.68	24	92.18	59 12
14.79	11	89.40	40 40	15.39	51	98.06	47 45	12.99	46	10.03	48 53	15.58	37	82.03	59 11	13.63	24	92.19	54 05
12.83	12	89.52	43 35	14.09	51	98.08	41 24	15.39	47	10.17	42 37	15.18	37	82.12	59 51	14.95	25	92.41	52 16
15.58	13	89.71	45 51	13.74	52	98.24	44 40	15.58	50	10.81	47 24	14.84	38	82.14	58 26	13.81	26	92.65	52 32
15.58	14	89.91	45 31	13.56	55	98.87	46 43	14.13	51	10.98	41 50	14.54	39	82.43	52 00	15.30	26	92.69	50 11
11.67	14	90.09	42 23	14.30	56	99.06	45 21	15.58	51	11.16	41 36	15.58	39	82.48	59 21	14.63	27	92.88	59 40
15.58	14	90.09	48 35	13.14	56	99.06	40 42	14.21	53	11.45	47 31	13.74	40	82.73	58 02	14.95	32	93.87	54 33
14.84	15	90.29	44 19	15.58	59	99.86	47 52	15.58	53	11.56	43 51	15.39	44	83.50	50 07	15.58	32	93.96	52 37
15.58	16	90.35	49 47	14.13	0 0	99.96	41 48	14.68	54	11.66	43 59	15.07	44	83.62	52 33	15.24	32	94.02	57 03
11.95	16	90.48	46 00	14.68	2	0.35	47 35	15.58	54	11.73	43 45	15.07	46	83.95	50 40	15.58	33	94.15	51 12
15.58	17	90.59	49 25	14.79	3	0.56	49 51	11.73	54	11.74	49 57	15.39	47	84.16	55 10	13.30	33	94.18	50 14
14.01	18	90.81	46 06	14.68	3	0.56	42 19	14.35	55	11.85	49 27	13.36	47	84.16	52 33	14.58	33	94.21	58 31
15.12	19	91.19	43 31	12.68	3	0.61	40 07	15.58	57	12.32	41 18	15.58	47	84.23	50 56	13.05	33	94.21	57 10
14.54	20	91.27	48 03	14.79	4	0.93	47 24	14.44	57	12.46	47 05	14.44	50	84.80	50 30	13.20	33	94.24	59 04
14.09	22	91.74	48 13	15.58	4	0.98	49 54	15.58	1 1	13.27	41 23	15.58	50	84.83	56 57	14.84	35	94.62	53 16
12.38	24	92.12	42 32	12.83	4	0.98	42 06	15.58	3	13.63	43 54	14.21	51	84.98	51 33	15.24	36	94.69	54 43
15.58	25	92.43	43 03	14.35	5	1.04	48 17	11.12	4	13.83	42 59	14.84	51	85.11	52 12	15.12	37	94.93	50 40

25 prec. + 58 sec. + 2′ 9″.

251—300				301—350				351—400				401—450				451—500			
Int. Magn.	α	x	$y+60'$	Int. Magn.	α	x	$y+60'$	Int. Magn.	α	x	$\frac{y+60'}{y+0'}$	Int. Magn.	α	x	$y+0'$	Int. Magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.24?	59 37	95.12	58 53	13.81	0 13	2.92	56 12	14.09	1 2	13.52	52 58	14.90	58 41	83.01	9 42	15.58	59 19	91.06	5 21
15.24	38	95.19	54 27	15.58	14	2.97	51 16	15.58	3	13.59	58 45	14.44	42	83.12	0 06	13.14	19	91.08	8 37
13.93	38	95.19	55 49	11.95	14	3.00	52 49	14.13	3	13.74	51 50	14.68	42	83.23	5 07	14.21	20	91.29	0 08
15.24	38	95.27	57 04	15.58	14	3.08	50 10	14.79	4	13.94	57 01	14.54	42	83.24	8 31	15.58	20	91.33	2 51
15.07	38	95.29	58 42	11.53	15	3.21	53 49	15.58	5	14.11	59 58	14.90	43	83.26	9 44	15.58	20	91.36	1 18
14.44	41	95.79	51 21	15.39	15	3.31	53 56	14.30	5	14.17	57 47	15.58	44	83.58	1 26	15.39	21	91.58	6 55
15.58	41	95.83	57 32	15.58	16	3.37	50 49	13.70	6	14.22	52 28	14.58	45	83.84	7 44	14.84	21	91.62	3 32
15.39	41	95.88	56 16	14.84	22	4.81	59 09	13.14	6	14.34	52 31	15.58	45	83.85	4 06	14.79	22	91.74	2 37
13.74	41	95.88	51 26	11.95	22	4.85	51 10	12.53	7	14.45	57 39	15.58	46	84.01	8 27	14.79	25	92.35	2 08
14.68	41	95.97	50 32	15.07	22	4.86	51 36	14.21	8	14.65	51 11	14.21	46	84.10	3 59	15.58	25	92.38	7 17
14.68	42	96.02	56 33	15.58	23	4.94	55 05	14.68	8	14.83	56 43	14.35	48	84.43	0 57	14.21	25	92.53	0 34
15.12	42	96.03	58 42	14.01	23	5.00	58 57	15.58	10	15.09	58 33	13.56	50	84.90	6 20	14.79	27	92.92	2 00
14.30	42	96.03	59 12	15.39	23	5.00	59 03	14.58	10	15.18	57 18	15.58	51	84.98	3 15	15.39	27	92.93	6 38
15.39	42	96.04	58 53	15.39	26	5.52	59 20	15.01	11	15.47	50 20	13.24	51	85.04	7 53	15.58	29	93.19	5 06
14.90	42	96.07	59 37	15.58	26	5.68	58 52	15.12	12	15.53	55 22	15.39	51	85.09	9 02	15.58	30	93.43	0 16
15.58	43	96.26	54 22	15.58	27	5.75	55 45	13.36	13	15.82	54 44	15.58	52	85.37	3 14	13.30	30	93.51	9 22
15.58	44	96.46	59 32	13.93	28	6.01	55 11	15.58	14	16.06	58 52	14.01	53	85.60	7 54	14.30	31	93.77	5 47
15.58	44	96.54	55 46	15.58	28	6.04	53 25	13.81	15	16.16	52 38	13.74	54	85.64	3 39	14.84	32	93.87	6 59
15.58	45	96.73	53 42	14.68	28	6.11	56 41	15.39	16	16.38	59 11	12.90	55	85.98	9 50	15.39	32	93.91	7 13
15.58	47	97.08	58 30	14.58	29	6.25	59 27	15.12	18	16.92	56 39	15.58	55	86.00	0 08	14.95	32	93.91	0 36
14.44	48	97.46	51 35	15.58	29	6.32	55 26	15.12	19	17.16	59 32	13.46	57	86.27	1 14	14.79	33	94.21	2 06
15.07	48	97.47	53 50	14.84	30	6.43	52 41	15.58	20	17.29	51 17	14.79	57	86.28	0 54	15.58	33	94.24	6 55
15.24	50	97.72	59 59	14.84	31	6.65	51 05	15.58	20	17.42	52 50	12.68	57	86.30	7 46	14.35	34	94.42	3 42
14.58	51	98.06	54 55	15.58	31	6.71	55 44	14.79	20	17.43	53 24	15.39	58	86.60	9 42	15.24	34	94.45	0 10
13.24	52	98.28	52 53	14.09	32	6.97	52 33	15.58	22	17.71	55 12	14.73	59	86.83	9 51	15.24	36	94.70	0 54
15.58	53	98.45	53 26	13.74	34	7.31	59 22	14.95	23	18.07	54 04	15.58	59 1	87.26	1 33	13.56	37	94.97	7 29
15.24	55	98.86	52 17	14.58	36	7.84	56 23	14.21	26	18.71	59 30	15.58?	1	87.33	7 59	14.39	37	95.07	9 32
11.81	55	98.87	54 10	13.93	39	8.44	51 22	15.24	28	18.99	53 18	14.21	2	87.36	0 43	14.95	38	95.17	9 02
13.30	55	98.93	55 25	11.81	40	8.74	54 18	14.21	28	19.08	56 30	15.39	2	87.39	9 04	15.07	38	95.35	9 11
14.68	57	99.27	51 59	14.44	40	8.77	57 33	14.68	29	19.35	50 42	15.58	2	87.49	3 59	15.58	40	95.67	9 10
15.58	57	99.40	54 33	14.30	41	8.89	52 04	14.09	30	19.48	54 20	14.84?	2	87.54	1 19	12.53	41	95.82	6 14
15.58	58	99.49	51 22	14.79	42	9.04	51 43	13.49	30	19.48	59 58	15.39	3	87.60	5 44	15.58	44	96.60	9 26
14.68	58	99.51	55 25	14.54	43	9.30	56 54	15.07	31	19.71	58 51	14.84	3	87.62	8 19	15.39	45	96.82	9 35
12.99	58	99.62	59 11	14.90	43	9.34	50 05	13.24	32	19.90	55 56	14.54	3	87.69	3 06	14.21	45	96.85	6 43
14.79	59	99.71	51 03	15.12	43	9.42	58 17	11.53	32	19.99	52 09	13.40	3	87.75	5 21	15.24	46	96.88	9 25
14.84	59	99.71	57 21	14.01	44	9.48	52 13	15.58	33	20.20	54 07	14.58	4	87.83	6 31	14.21	46	96.96	4 05
14.54	59	99.77	52 57	15.39	45	9.76	51 29	15.24	34	20.41	52 50	15.58	4	87.88	9 59	15.39	46	97.02	8 53
13.93	59	99.80	56 04	13.56	45	9.78	58 51	14.58	35	20.64	58 12	14.13	4	87.98	9 06	14.54	47	97.15	7 28
13.93	59	99.83	52 24	15.24	45	9.80	50 08	14.21	36	20.80	58 02	14.79	6	88.32	7 35	13.81	48	97.36	6 08
15.58	0 0	0.04	57 49	15.39	46	10.00	57 50	14.84	36	20.80	58 24	15.58	7	88.47	7 58	14.84	50	97.76	9 07
13.14	2	0.41	57 58	14.95	46	10.04	53 37	15.07	38	21.16	58 05	15.01	8	88.69	0 20	13.20	51	98.01	9 52
10.36	4	0.89	56 53	15.58	48	10.29	57 11	11.95	40	21.58	52 41	13.81	10	89.27	3 49	15.58	51	98.15	5 41
15.39	7	1.51	58 21	15.58	50	10.83	55 34	13.46	40	21.63	58 40	14.09	11	89.33	3 30	15.58	52	98.16	2 58
15.58	7	1.59	51 21	15.58	51	10.95	55 21	15.58	40	21.72	59 56	15.24	12	89.68	6 09	14.95	52	98.19	0 27
13.81	8	1.74	57 49	15.39	53	11.43	50 11	14.21	41	21.88	58 04	14.01	13	89.79	0 23	14.35	52	98.20	0 20
14.79	9	2.05	55 44	13.74	53	11.56	58 09	14.84	58 38	82.30	2 07	15.58	14	90.09	6 54	15.58	52	98.30	1 02
15.12	10	2.25	52 11	15.58	55	11.87	57 13	14.35	39	82.38	8 47	15.12	15	90.20	3 27	15.24	55	98.85	0 29
14.54	12	2.69	53 24	14.30	58	12.54	59 13	12.68	39	82.41	3 36	14.30	16	90.41	9 21	15.07?	55	98.95	8 56
13.46	13	2.77	55 33	15.24	59	12.74	54 44	15.58	40	82.75	0 53	13.74	16	90.48	5 38	12.38	55	98.95	1 16
15.58	13	2.85	55 59	15.24	1 0	13.07	50 25	14.95	41	82.91	4 53	14.79	18	91.02	7 37	15.07	59	99.73	4 31

25 prec. + 58 sec. + 2′ 10″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.12	59 59	99.79	6 29	14.68	0 44	9.47	8 45	14.68	1 28	18.99	4 04	15.58	58 54	85.71	17 01	14.13	59 42	96.21	12 01
14.21	59	99.87	7 34	15.24	44	9.56	2 30	14.58	28	19.14	6 34	13.63	54	85.75	15 28	14.79	43	96.41	13 47
15.07	59	99.88	6 19	15.58	45	9.83	2 02	14.13	29	19.23	1 09	15.58	54	85.81	13 52	11.67	47	97.10	16 31
15.39	0 1	0.18	9 17	15.58	48	10.33	4 14	14.84	29	19.26	5 51	12.24	56	86.28	16 42	15.58	47	97.10	12 15
14.35	4	0.77	5 56	15.12	48	10.36	0 32	12.53	30	19.40	6 05	15.58	57	86.44	17 25	15.58	48	97.38	13 18
12.83	5	1.12	5 40	10.98	48	10.41	9 33	15.12	30	19.55	0 37	14.68	59	86.85	13 17	12.24	49	97.59	15 56
14.90	6	1.26	0 26	14.95	49	10.61	4 29	15.07	31	19.62	3 21	15.39	59 0	87.08	17 34	15.07	49	97.68	16 14
15.58	7	1.42	5 41	13.70	50	10.82	1 11	15.24	32	19.81	9 02	15.58	2	87.50	12 09	14.68	50	97.77	17 27
15.30	7	1.45	0 09	14.95	50	10.83	4 44	13.70	32	19.84	2 14	14.68	6	88.29	14 21	10.40	50	97.77	15 23
15.12	7	1.55	1 12	14.68	50	10.86	2 42	15.58	32	19.89	8 48	14.35	8	88.67	17 43	14.58	50	97.80	11 17
12.38	7	1.56	2 07	13.14	52	11.35	2 39	15.58	32	19.91	0 39	15.07	10	89.09	11 27	15.58	50	97.89	11 48
13.14	7	1.60	3 38	13.81	54	11.71	1 40	14.44	32	19.97	3 17	15.39	10	89.23	13 41	15.58	51	97.99	18 09
11.95	8	1.64	2 17	14.68	55	11.87	1 31	14.35	33	20.08	5 30	15.58	11	89.40	19 08	14.68	51	98.14	13 30
15.39	8	1.79	1 32	15.58	55	11.97	0 02	12.83	36	20.78	9 12	14.01	13	89.79	18 30	14.09	52	98.26	12 09
15.58	9	2.00	1 36	14.35	56	12.15	7 40	15.58	37	20.99	2 17	13.81	13	89.79	19 54	15.58	52	98.36	19 49
14.13	10	2.14	0 23	11.26	56	12.17	4 47	14.68	37	21.08	7 28	13.74	13	89.79	16 44	12.38	54	98.73	17 11
14.58	10	2.17	0 07	15.07	58	12.50	0 02	15.58	38	21.09	4 51	14.68	14	90.15	19 38	15.07	54	98.76	14 02
8.90*	11	2.30	1 08	13.56	59	12.72	2 31	15.58	39	21.35	0 38	15.24	15	90.20	15 58	14.79	55	98.86	18 28
10.40	11	2.37	4 16	15.58	1 3	13.66	6 46	12.30	39	21.38	9 53	15.58	15	90.21	15 23	14.58?	55	99.02	10 01
15.58	13	2.81	3 34	15.58	3	13.68	6 24	13.14	40	21.56	3 43	14.58	15	90.27	13 43	15.24	56	99.24	19 10
15.24	14	3.01	6 40	11.12	4	13.79	4 05	15.58	40	21.57	9 25	15.58	16	90.40	18 49	12.68	57	99.44	19 49
15.07	14	3.02	7 08	15.24	4	13.92	4 31	15.58	40	21.60	3 12	14.01	17	90.65	14 17	15.58	58	99.49	19 05
14.84	15	3.25	4 13	14.54	5	14.06	3 02	15.58	41	21.78	2 34	15.58	17	90.65	10 31	12.68	58	99.54	14 41
14.68	15	3.34	6 12	13.30	5	14.13	4 35	15.07	41	21.92	8 08	15.12	17	90.78	10 08	15.58	58	99.67	13 22
14.21	16	3.54	2 55	15.39	7	14.43	2 11	14.84	42	21.98	6 50	14.79	19	91.16	17 17	15.58	59	99.73	13 58
14.84	17	3.63	5 58	10.58	11	15.30	5 20	14.84?	58 37	82.02	11 50	15.58	20	91.33	11 40	10.00*	59	99.76	10 27
15.07	17	3.74	2 09	14.09	11	15.32	3 37	15.39	37	82.12	12 10	11.95	21	91.49	16 32	14.68	59	99.79	18 00
13.08	18	3.93	4 08	14.30	12	15.57	2 50	14.95	38	82.22	18 36	12.24	21	91.58	10 45	13.63	0 0	99.95	14 50
15.12	18	4.00	9 12	15.24	12	15.65	2 47	15.58	39	82.60	18 12	15.58	22	91.84	16 44	15.58	4	0.96	18 51
14.68	19	4.13	7 19	10.87	13	15.83	5 24	15.58	40	82.73	17 07	14.13	22	91.86	15 49	15.58	5	1.06	12 36
13.46	21	4.44	3 38	14.01	14	15.94	4 32	13.81	40	82.83	17 46	12.99	25	92.50	18 49	15.39	7	1.49	13 10
14.68	21	4.52	9 34	15.01	14	16.11	9 57	15.24	41	82.87	18 46	14.54	26	92.56	15 23	13.89	8	1.62	12 40
15.58	21	4.62	9 10	15.58	16	16.34	8 13	15.58	42	83.06	11 10	15.24	26	92.58	10 45	15.58	8	1.75	13 38
15.39	22	4.68	7 11	13.46	16	16.34	2 20	9.43	43	83.32	18 10	15.39	27	92.78	11 10	12.24	9	1.95	17 30
11.81	22	4.73	2 16	13.70	17	16.61	0 44	14.95	44	83.59	18 09	14.84	27	92.86	14 08	15.58	13	2.72	11 38
14.35	23	4.97	4 11	12.09	17	16.71	3 25	12.93	44	83.61	13 42	12.93	30	93.45	16 56	15.07	13	2.75	12 04
13.46	25	5.36	9 24	14.84	20	17.25	6 35	15.58	45	83.74	12 12	15.39	30	93.56	12 05	14.54	13	2.88	12 25
15.58	25	5.40	5 49	14.84	20	17.39	8 19	15.58	45	83.75	15 58	15.58	30	93.61	18 49	15.58	14	2.95	15 58
11.40	26	5.55	1 38	15.39	21	17.51	7 07	12.99	45	83.81	17 08	14.84	31	93.66	10 43	13.46	16	3.46	14 41
14.68	26	5.70	5 15	15.39	21	17.61	2 22	14.13	45	83.85	18 55	14.44	31	93.69	12 46	14.84	16	3.52	14 08
15.58	28	6.16	0 28	14.84	23	17.90	0 32	15.58	46	84.09	15 28	12.53	32	93.93	18 19	15.58	17	3.60	13 02
11.26	29	6.31	8 18	15.58	24	18.08	2 12	15.24	46	84.10	15 56	15.07	33	94.07	19 54	15.58	17	3.76	13 48
15.24	29	6.33	0 58	14.21	24	18.13	1 41	15.58	48	84.34	19 15	14.44	33	94.16	12 00	15.58	18	3.98	14 34
15.07	31	6.65	9 15	15.07	24	18.19	5 21	12.83	50	84.87	19 12	14.35	34	94.33	11 53	15.58	19	4.05	15 13
14.79	32	7.02	3 32	14.95	26	18.52	0 37	13.89	50	84.97	18 06	13.24	34	94.41	17 52	14.95	19	4.06	10 02
13.30	38	8.15	4 00	13.24	26	18.57	2 19	14.79	51	85.10	14 25	14.13	36	94.78	12 11	15.58	19	4.07	16 13
15.39	38	8.16	9 42	12.53	26	18.65	1 00	14.68	51	85.16	15 48	14.21	36	94.87	10 53	15.58	21	4.52	15 37
15.24	39	8.48	3 41	14.79	26	18.68	8 43	12.38	52	85.28	10 08	13.56	37	94.98	19 07	15.39	22	4.78	14 11
15.58	41	8.92	6 28	15.58	27	18.85	2 15	12.68	52	85.38	10 47	14.68	39	95.54	11 26	14.95	24	5.16	19 15
14.68	42	8.98	0 44	15.58	27	18.90	9 49	12.83	53	85.58	17 08	14.13	41	95.93	16 46	15.24	25	5.32	14 51

25 prec. + 58 sec. + 2′ 10″.

751—780				781—810				811—840				841—854							
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$				
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″				
10.28	0 25	5.37	17 48	13.89	0 46	9.86	18 37	15.07	1 8	14.61	19 08	11.67	1 34	20.23	18 30				
10.38	26	5.59	16 45	15.58	46	9.88	19 00	15.58	8	14.68	12 25	15.07	34	20.32	15 09				
13.56	27	5.84	12 59	15.58	48	10.43	15 44	15.39	9	14.81	18 53	14.09	34	20.38	19 14				
14.21	28	5.94	15 08	14.13	49	10.60	16 51	12.09	9	14.95	12 30	14.79	35	20.59	19 44				
15.58	28	5.98	16 04	14.68	52	11.15	13 29	15.39	9	14.96	16 56	15.07	36	20.72	10 53				
12.24	28	5.98	13 37	11.81	52	11.31	16 11	15.24	9	14.99	16 17	15.58	36	20.81	11 05				
14.35	28	6.01	17 08	9.90*	52	11.32	11 32	13.40	10	15.22	16 08	14.30	37	20.89	15 30				
14.21	29	6.27	15 50	10.82	53	11.45	17 13	13.46	11	15.34	15 08	15.07	37	21.04	12 58				
15.58	30	6.53	15 01	14.68	53	11.48	10 42	12.09	11	15.37	18 11	14.68	38	21.14	16 58				
13.36	30	6.54	11 28	14.21	54	11.74	13 47	13.53	11	15.44	15 40	12.53	38	21.21	11 54				
10.69	31	6.73	10 37	15.58	55	11.84	12 32	13.81	12	15.51	11 16	15.58	39	21.28	10 43				
15.58	32	6.95	15 36	15.39	55	11.87	19 06	13.53	12	15.61	18 34	15.24	39	21.37	15 18				
12.93	33	7.11	19 12	13.30	55	11.97	11 09	11.53	12	15.63	12 35	14.21	40	21.50	13 19				
12.38	35	7.53	11 24	14.79	56	12.03	14 08	14.84	15	16.18	12 02	14.79	42	21.92	14 28				
15.12	36	7.83	16 57	14.79	56	12.04	15 37	15.58	15	16.21	15 47								
13.89	37	7.90	11 25	15.58	57	12.31	19 39	15.24	17	16.66	15 19								
15.58	37	8.05	13 23	12.38	57	12.41	11 23	15.07	17	16.68	15 17								
15.58	38	8.20	16 30	14.84	58	12.52	18 13	14.84	18	16.78	15 27								
14.21	38	8.22	18 32	14.68	59	12.77	14 57	13.53	21	17.51	16 39								
14.35	39	8.39	10 42	14.54	1 0	12.89	12 00	14.13	21	17.52	13 27								
15.24	40	8.66	13 22	14.54	0	13.04	11 57	14.95	21	17.57	12 25								
14.30	41	8.77	19 58	11.26	1	13.22	13 10	11.40	25	18.33	10 24								
14.68	41	8.89	18 36	15.58	2	13.31	12 39	15.58	25	18.35	15 48								
15.39	42	8.99	14 19	15.58	2	13.39	12 29	15.39	25	18.37	18 29								
14.68	42	9.01	15 50	15.58	3	13.59	16 29	15.58	26	18.57	11 30								
15.58	42	9.03	10 26	15.39	3	13.64	18 57	12.38	28	18.91	16 06								
13.74	43	9.30	18 47	15.24	3	13.66	19 53	13.46	28	19.06	14 40								
14.21	43	9.32	10 42	14.79	4	13.74	10 51	12.53	31	19.73	17 47								
15.58	43	9.33	15 32	13.93	6	14.33	19 43	13.70	32	19.83	12 24								
13.67	45	9.82	10 16	15.58	7	14.40	17 08	13.46	32	19.89	10 40								

25 prec. + 58 sec. + 2′ 12″.

19^h Area 64. Centre for 1900: $19^h\ 58^m + 30°\ 0'$. $+ 29°$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.97	56 1	74.08	43 42	15.75	56 3	74.53	43 41	14.97	56 6	75.37	43 20	15.75	56 8	75.74	43 06	15.75	56 12	76.59	44 40
15.75	1	74.13	46 45	12.91	3	74.57	49 19	14.54?	6	75.37	45 55	12.43	8	75.74	42 46	15.75	12	76.61	46 34
15.75	1	74.20	46 30	14.20	3	74.64	45 48	14.80	7	75.40	48 01	15.75	9	75.93	49 06	14.97	12	76.64	45 56
12.01	2	74.29	40 26	15.75	4	74.85	48 26	14.97	7	75.45	48 44	12.14	10	76.04	41 28	15.75	12	76.65	41 18
15.75	2	74.34	42 41	15.75	4	74.86	46 15	12.91	7	75.48	47 17	15.28	10	76.11	44 18	15.75	12	76.65	46 05
14.39	2	74.35	45 01	15.75	4	74.92	48 04	14.70	7	75.49	43 33	12.74	10	76.17	46 41	14.39	12	76.65	49 49
15.75	2	74.37	42 22	15.75	5	75.00	41 14	15.75	7	75.52	49 09	14.92	10	76.20	45 07	14.70	13	76.68	48 51
15.75	2	74.37	41 58	14.20	5	75.13	41 19	12.91	7	75.57	47 25	15.75	11	76.27	44 37	15.75	13	76.79	46 42
14.97	2	74.46	44 49	15.75	6	75.24	49 17	15.75	8	75.59	41 34	15.56	11	76.41	41 06	14.06	13	76.80	48 54
14.92	2	74.49	46 59	15.41	6	75.33	41 41	15.75	8	75.63	46 14	14.92	12	76.53	40 50	13.08	13	76.87	41 32

25 prec. + 60 sec. + 4′ 3″.

Area 64.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.28	56 13	76.88	46 15	15.22	56 30	80.50	41 11	12.74	56 48	84.31	41 20	14.97	57 12	89.62	42 28	12.91	57 35	94.63	46 53
15.28	14	76.90	47 01	12.28	30	80.54	49 00	13.01	48	84.46	47 27	15.28	13	89.83	44 41	14.20	35	94.65	40 03
15.75	14	76.94	47 32	14.97	31	80.61	40 55	15.75	49	84.55	43 24	13.64	13	89.83	49 23	14.80	36	94.71	48 19
14.39	15	77.14	40 56	15.75	32	80.84	44 48	13.93	49	84.64	47 18	9.06	13	89.86	42 36	14.54	36	94.73	42 00
12.91	15	77.23	48 36	15.75	32	80.95	43 54	15.41	49	84.70	47 02	15.28	14	89.99	41 52	15.41	36	94.75	49 45
15.75	15	77.31	40 30	14.20	32	80.97	45 25	14.80	50	84.74	45 55	15.75	15	90.20	43 22	13.44	36	94.79	44 39
14.44	16	77.40	45 05	15.75	33	81.02	42 21	12.84	50	84.75	45 02	15.28	15	90.26	44 12	15.56	36	94.87	46 48
15.75	16	77.41	44 09	15.75	33	81.04	42 41	15.09	52	85.22	46 10	14.29	15	90.28	41 44	15.41	37	95.03	41 02
15.75	16	77.47	40 14	12.91	34	81.24	48 48	15.28	52	85.32	47 23	11.88	15	90.31	49 22	14.15	38	95.13	43 18
13.72	16	77.47	43 20	12.14	34	81.32	48 55	15.41	53	85.47	46 32	14.64	16	90.39	44 30	15.75	38	95.15	47 38
15.28	16	77.49	45 29	10.64	34	81.33	45 00	14.80	55	85.92	47 34	13.26	16	90.45	49 54	15.28	38	95.16	42 30
15.56	16	77.53	46 53	13.72	34	81.35	46 43	14.64	55	85.93	45 31	15.22	16	90.50	47 37	14.97	38	95.26	47 32
15.75	18	77.77	47 13	15.75	34	81.36	42 50	14.06	56	86.06	40 10	11.04	17	90.66	41 46	12.28	38	95.28	49 09
12.01	18	77.79	44 38	14.39	34	81.37	44 24	14.70	57	86.43	49 19	15.75	17	90.67	43 41	15.75	39	95.52	44 55
15.28	18	77.89	47 40	14.64	34	81.41	40 21	15.75	58	86.47	47 53	15.75	17	90.69	48 26	15.28	39	95.52	48 46
14.39	18	77.91	40 13	13.93	34	81.43	45 21	15.75	58	86.49	42 09	15.41	18	90.82	48 11	14.80	40	95.57	46 53
14.80	19	78.04	43 09	13.19	36	81.67	45 35	15.75	58	86.50	45 59	12.81	18	90.90	45 30	14.64	40	95.58	40 23
15.75	19	78.05	45 30	12.91	38	82.13	49 20	15.09	58	86.51	41 47	13.84	18	90.97	47 29	15.75	40	95.70	41 53
15.75	19	78.11	45 38	14.64	38	82.20	46 47	13.44	58	86.51	46 41	12.98	19	91.01	47 55	14.97	41	95.79	48 06
15.75	19	78.14	41 01	15.75	38	82.26	47 26	15.75	58	86.57	49 07	15.41	19	91.04	48 04	15.75	41	95.81	47 21
12.74	20	78.33	41 06	14.97	38	82.26	49 40	15.41	58	86.60	49 28	15.75	19	91.19	43 13	15.56	41	95.89	47 10
15.75	21	78.48	45 50	10.48	38	82.29	42 08	15.75	58	86.62	49 24	11.63	20	91.34	41 29	15.75	41	95.91	47 56
15.56	21	78.51	49 07	15.22	39	82.44	49 18	14.97	59	86.66	49 06	13.64	20	91.40	49 53	15.75	41	95.95	48 26
14.29	22	78.79	48 00	15.75	39	82.47	46 19	10.62	57 0	86.89	42 16	10.93	21	91.49	41 10	15.75	42	96.02	45 51
15.56	22	78.83	44 58	14.70	40	82.57	44 44	14.97	0	86.96	47 17	10.22*	21	91.51	49 37	14.39	42	96.20	49 45
15.22	22	78.84	46 22	14.29	40	82.61	42 37	13.64	0	87.05	49 19	14.97	22	91.72	46 58	14.97	43	96.39	48 48
13.93	23	78.88	42 20	12.58	40	82.67	42 51	15.75	2	87.38	48 19	14.54	22	91.78	44 18	15.75	44	96.49	42 31
15.22	23	78.91	42 38	14.54	40	82.70	45 43	15.75	2	87.39	42 55	13.84	23	91.90	49 19	13.97	44	96.60	47 44
15.41	23	78.96	43 06	14.97	40	82.74	48 52	14.80	2	87.41	48 46	13.37	23	91.93	41 41	15.75	45	96.69	45 00
14.92	23	79.03	48 06	14.44	41	82.80	48 46	15.75	2	87.50	44 58	14.44	23	91.94	45 15	15.75	45	96.82	44 30
13.44	23	79.03	41 40	15.41	42	82.96	42 36	15.75	3	87.62	45 26	14.44	23	92.02	49 25	15.75	45	96.84	47 43
15.75	24	79.09	42 55	15.56	42	83.06	45 05	15.09	3	87.64	46 47	15.56	24	92.24	43 58	15.56	46	96.85	40 46
14.92	25	79.30	40 55	14.70	42	83.08	46 19	14.29	4	87.75	45 39	14.97	25	92.48	42 54	15.75	46	96.93	47 39
13.15	25	79.32	40 30	13.56	43	83.22	48 56	15.75	4	87.92	43 40	15.75	26	92.66	43 04	15.28	46	97.07	49 16
15.41	25	79.34	46 34	15.75	43	83.23	42 11	12.28	5	87.95	41 06	15.75	26	92.71	49 55	15.75	47	97.21	48 53
14.06	25	79.42	44 30	14.92	44	83.41	41 21	14.80	5	88.04	41 13	15.75	26	92.71	48 36	13.72	48	97.32	44 09
12.58	25	79.44	47 54	14.80	44	83.45	44 51	15.75	5	88.15	44 50	14.06	27	92.81	45 32	15.56	49	97.64	46 43
14.15	25	79.48	44 59	15.56	44	83.50	42 30	14.06	5	88.16	48 17	15.56	27	92.85	47 25	15.75	50	97.78	49 48
15.03	26	79.49	49 53	14.39	44	83.51	43 09	10.62	7	88.60	46 27	9.32*	27	92.89	45 14	14.70	50	97.81	48 19
14.20	26	79.50	47 17	14.97	44	83.52	44 29	15.75	8	88.61	45 11	15.75	28	93.06	46 12	14.39	50	97.86	44 42
15.75	26	79.59	49 40	15.75	44	83.60	40 57	15.28	8	88.62	47 23	14.97	29	93.33	44 05	14.80	52	98.20	43 02
15.75	26	79.66	46 35	14.06	45	83.73	45 13	15.75	9	88.96	43 43	14.92	30	93.48	48 17	14.44	52	98.24	42 34
13.33	26	79.70	40 57	11.51	45	83.74	48 22	13.72	10	89.09	45 34	15.75	32	93.87	41 27	15.56	52	98.30	44 32
14.64	27	79.80	46 49	14.15	45	83.74	46 31	13.97	10	89.20	42 48	15.75	32	93.90	40 54	14.20	53	98.50	44 09
11.51	27	79.90	43 36	15.75	45	83.75	40 39	15.75	11	89.34	40 12	15.75	32	93.97	41 49	15.41	54	98.68	43 41
15.56	28	79.94	41 21	13.64	46	83.88	49 25	15.75	11	89.40	47 48	14.15	32	94.03	43 08	12.43	54	98.74	49 15
15.56	28	79.99	41 15	15.75	46	83.93	44 11	15.22	11	89.42	44 54	14.64	34	94.35	45 30	14.92	54	98.75	46 33
15.75	28	80.07	47 53	12.43	47	84.08	46 05	15.75	12	89.49	43 30	15.22	34	94.35	40 21	14.29	55	98.85	46 08
15.75	29	80.19	42 56	10.84	47	84.12	40 40	15.28	12	89.58	41 48	15.75	35	94.47	40 55	15.09	55	98.86	41 00
14.97	29	80.28	40 56	15.75	48	84.28	42 19	14.15	12	89.62	47 03	15.28	35	94.55	48 08	15.75	55	98.90	47 54

25 prec. + 60 sec. + 4′ 5″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.72	57 56	99.11	46 22	14.39	58 15	3.16	42 11	12.58	58 40	8.71	43 30	15.28	59 1	13.34	42 31	14.29	56 8	75.66	53 49
14.70	56	99.23	42 38	15.75	15	3.22	48 55	14.29	40	8.77	45 59	15.75	2	13.38	40 07	14.80	8	75.72	55 46
15.75	57	99.27	44 43	15.28	15	3.22	46 49	14.64	41	8.81	47 29	15.75	3	13.65	40 12	13.72	8	75.77	56 06
13.44	57	99.27	44 17	12.84	15	3.23	42 48	11.00	41	8.83	42 02	14.92	3	13.66	47 44	14.29	9	75.86	55 43
15.75	57	99.44	46 37	15.75	16	3.44	46 59	15.22	41	8.93	43 07	9.16	3	13.68	45 06	15.75	9	75.95	51 54
15.41	57	99.45	49 23	13.19	16	3.54	42 55	14.15	42	9.06	43 47	15.41	3	13.75	49 06	15.75	9	75.97	53 53
15.75	58	99.47	45 29	13.52	18	3.92	41 14	14.92	42	9.12	47 06	15.75	4	13.80	40 35	15.41	10	76.19	50 23
15.09	58	99.60	49 45	14.80	18	3.94	47 46	13.30	42	9.16	49 41	15.56	4	13.94	48 13	14.20	10	76.24	52 40
15.22	58	99.64	45 09	14.20	18	3.96	48 43	15.09	42	9.21	49 29	15.56	56 0	74.04	55 34	15.75	10	76.25	52 00
15.75	58	99.66	49 19	15.75	18	3.97	42 29	12.58	42	9.21	45 27	15.22	0	74.07	52 04	15.75	10	76.27	54 55
14.92	59	99.71	43 43	15.75	19	4.15	44 58	14.15	43	9.36	44 10	14.29	0	74.10	57 32	14.54	11	76.46	50 42
15.41	58 0	0.07	46 53	14.06	19	4.22	46 46	15.75	44	9.52	47 56	13.97	1	74.23	58 58	15.75	12	76.50	54 23
14.70	0	0.07	43 40	13.76	20	4.34	47 54	15.56	45	9.74	47 22	15.41	2	74.33	55 56	15.56	12	76.55	54 53
15.09	1	0.19	42 08	14.75	20	4.36	49 48	15.75	46	9.88	43 30	15.75	2	74.36	54 11	15.56	12	76.62	58 10
14.80	1	0.23	47 46	14.39	21	4.48	47 10	15.75	46	10.02	46 38	14.97	2	74.36	53 37	15.09	12	76.67	51 49
15.75	1	0.27	46 25	13.93	21	4.57	41 39	13.56	47	10.14	40 57	13.08	2	74.44	59 35	14.80	12	76.67	51 18
15.75	2	0.36	46 59	14.54	21	4.59	47 54	12.74	47	10.18	40 22	14.92	2	74.47	58 10	15.56	13	76.74	54 44
15.75	2	0.41	42 14	14.70	21	4.66	45 49	15.41	47	10.19	45 42	15.09	2	74.52	58 24	15.15	13	76.76	50 29
14.92	2	0.45	45 58	15.75	22	4.88	44 38	12.84	48	10.38	45 03	14.39	3	74.55	54 59	15.56	13	76.77	56 23
15.28	3	0.55	49 52	15.28	23	4.89	43 59	15.75	50	10.75	45 28	14.20	3	74.57	52 29	15.75	13	76.86	58 17
15.41	3	0.60	42 52	13.72	23	4.97	47 27	15.41	50	10.94	43 51	14.70	3	74.58	54 52	15.75	13	76.87	51 57
14.39	3	0.71	41 22	14.06	23	4.98	43 27	15.56	51	10.98	48 18	14.29	3	74.59	56 57	15.22	14	76.96	55 47
15.75	4	0.88	49 51	15.22	23	5.08	48 10	14.64	51	11.02	40 33	14.97	3	74.60	57 11	15.75	14	76.98	59 04
14.15	4	0.96	49 18	15.28	24	5.17	46 03	14.80	51	11.03	43 20	15.41	3	74.75	58 39	13.72	14	77.01	58 27
15.75	5	0.99	42 11	11.51	24	5.23	47 34	14.15	51	11.10	40 52	15.75	4	74.79	51 01	15.56	14	77.02	51 30
14.64	6	1.23	48 55	14.29	24	5.32	42 01	15.56	51	11.10	41 30	13.19	4	74.82	54 41	14.20	14	77.11	53 12
12.74	6	1.33	41 58	15.09	25	5.33	49 16	15.75	51	11.17	45 30	15.75	4	74.88	57 39	13.93	14	77.13	55 09
15.75	6	1.35	47 47	15.28	25	5.35	45 25	15.56	52	11.25	42 57	15.41	4	74.88	56 59	15.09	15	77.15	54 49
14.64	6	1.36	48 37	15.22	25	5.39	43 53	15.75	52	11.32	46 43	13.84	4	74.97	55 06	14.80	15	77.17	58 40
13.08	6	1.38	46 20	12.74	26	5.64	42 35	14.39	52	11.39	46 22	12.58	5	74.98	51 36	14.29	15	77.29	57 05
14.64	7	1.48	44 37	12.58	26	5.68	46 04	12.74	53	11.55	41 05	15.75	5	74.99	58 26	15.75	15	77.29	55 34
13.26	7	1.50	46 36	10.66	27	5.77	47 40	15.09	53	11.55	43 40	14.29	5	75.01	55 05	13.93	15	77.35	51 12
13.44	7	1.58	42 49	11.14	27	5.83	40 45	15.75	54	11.61	45 44	13.26	5	75.08	51 14	15.22	16	77.40	57 56
13.84	7	1.59	45 09	12.14	28	6.10	45 04	14.97	54	11.64	47 43	14.80	5	75.09	59 08	15.56	16	77.45	52 27
13.97	7	1.60	41 01	14.54	28	6.10	47 21	12.91	54	11.78	49 34	14.39	5	75.10	51 33	12.28	16	77.46	54 53
14.92	8	1.64	47 08	15.75	30	6.46	48 15	14.80	54	11.81	46 28	12.43	6	75.24	55 15	14.97	16	77.49	57 44
15.56	8	1.68	47 29	14.97	30	6.61	47 36	15.75	55	11.89	41 42	12.68	6	75.24	50 04	14.97	17	77.58	54 38
15.75	8	1.83	41 31	14.64	31	6.67	40 28	13.52	55	11.89	47 39	15.56	6	75.35	54 53	15.09	17	77.61	59 00
15.75	9	1.99	47 16	13.52	31	6.78	49 55	15.75	56	12.09	46 45	15.75	6	75.36	55 42	15.75	17	77.61	58 42
13.19	9	2.01	41 41	15.75	32	6.94	48 14	11.75	56	12.21	43 06	12.58	6	75.36	52 33	15.75	17	77.66	58 56
15.75	9	2.04	48 12	14.06	32	6.96	42 31	15.41	56	12.23	46 14	14.20	6	75.37	51 22	15.75	17	77.66	51 10
13.76	10	2.09	48 37	15.75	33	7.15	45 38	12.91	57	12.38	47 37	15.75	7	75.45	55 11	15.75	17	77.70	59 12
15.75	10	2.22	45 03	14.54	35	7.53	44 18	13.76	57	12.45	44 32	14.70	7	75.45	51 47	12.14	18	77.82	53 45
13.01	11	2.32	49 42	15.75	35	7.64	44 59	15.75	58	12.50	47 57	14.06	7	75.49	54 51	15.75	18	77.86	52 28
14.20	11	2.36	44 07	13.56	36	7.86	40 48	13.68	59	12.73	49 44	13.08	7	75.50	55 36	14.15	18	77.87	51 10
15.75	11	2.41	46 46	11.51	37	8.00	48 03	14.92	59	12.84	45 09	15.09	7	75.57	56 54	15.75	19	78.05	53 11
11.88	11	2.44	44 25	14.70	37	8.13	42 06	15.75	59 0	12.97	47 36	15.09	7	75.57	54 17	14.44	19	78.07	53 40
14.64	12	2.63	44 05	14.70	39	8.39	42 07	13.64	1	13.20	46 39	15.75	7	75.57	51 17	14.29	19	78.13	51 00
14.15 :	13	2.74	44 00	15.75	39	8.55	45 29	14.64	1	13.21	40 26	14.06	7	75.59	51 28	14.44	19	78.15	55 25
15.22	14	3.00	43 56	14.39	40	8.64	43 47	14.64	1	13.33	48 27	14.44	8	75.66	50 36	15.09	19	78.18	55 46

551—600				601—650				651—700				701—750				751—800			
Int. Magn.	a	x	$y+60'$	Int. Magn.	a	x	$y+60'$	Int. Magn.	a	x	$y+60'$	Int. Magn.	a	x	$y+60'$	Int. Magn.	a	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.39	56 20	78.24	51 58	15.75	56 30	80.44	58 56	15.75	56 39	82.41	57 00	15.75	56 49	84.70	52 23	14.70	57 3	87.64	54 43
15.28	20	78.26	58 11	14.97	30	80.44	57 05	14.39	39	82.44	59 22	13.26	50	84.73	53 28	12.98	3	87.70	50 59
15.09	20	78.26	53 52	13.33	30	80.47	52 00	15.35	40	82.56	50 07	14.06	50	84.73	55 41	15.41	3	87.75	54 40
14.54	20	78.30	59 14	15.75	30	80.48	52 58	14.29	40	82.62	55 07	15.41	50	84.91	59 17	14.15	4	87.81	58 43
14.39	20	78.31	52 19	15.75	30	80.49	53 41	15.75	40	82.64	55 33	15.09	51	84.96	56 06	14.70	4	87.92	59 22
15.41	20	78.34	59 58	15.75	30	80.51	58 51	14.80	40	82.72	58 38	10.44	51	84.97	56 52	14.70	4	87.92	59 46
14.80	20	78.38	59 43	15.75	30	80.53	51 28	15.75	40	82.73	51 22	15.41	51	85.06	59 50	14.54	4	87.94	53 33
15.09	21	78.63	53 23	14.70	31	80.65	59 40	14.92	40	82.75	50 38	15.75	51	85.08	54 58	13.44	5	88.01	54 36
14.06	22	78.69	51 10	12.01	31	80.68	59 18	14.80	41	82.79	54 37	14.97	52	85.15	54 37	15.75	5	88.03	56 31
15.75	22	78.79	53 07	15.75	31	80.70	51 32	14.97	41	82.79	52 23	12.58	52	85.15	51 44	12.84	5	88.06	58 43
15.75	22	78.84	52 08	13.52	31	80.71	52 04	13.84	41	82.84	52 52	15.09	52	85.21	56 48	15.75	5	88.16	56 29
14.15	23	78.91	56 05	14.64	31	80.78	57 56	15.75	41	82.86	55 21	15.75	52	85.33	56 06	14.49	5	88.16	50 09
14.29	23	78.97	59 14	15.75	31	80.78	55 13	15.28	41	82.95	54 39	13.76	52	85.35	58 21	14.64	6	88.20	55 08
13.97	23	78.97	57 53	14.92	32	80.84	54 20	14.80	41	82.98	58 26	15.56	52	85.36	56 27	14.70	6	88.24	55 48
13.93	23	79.04	58 54	15.75	32	80.86	53 06	14.70	42	83.00	55 02	14.70	52	85.36	52 59	13.15	6	88.28	50 11
14.97	23	79.06	56 02	15.56	32	80.93	54 41	14.64	42	83.01	53 10	15.15	53	85.38	50 06	14.44	6	88.31	52 48
15.75	23	79.06	56 36	15.75	32	80.96	51 46	12.74	42	83.04	54 21	15.56	53	85.47	52 14	11.63	7	88.43	54 16
15.75	23	79.06	51 49	15.75	32	80.97	58 00	12.74	42	83.08	50 58	15.75	53	85.56	54 45	15.56	7	88.48	53 56
15.56	23	79.07	56 54	14.39	32	81.03	52 49	15.09	42	83.18	56 58	12.74	54	85.69	51 43	12.74	7	88.53	51 08
14.39	24	79.13	54 24	15.41	33	81.05	55 34	15.75	43	83.25	56 28	15.09	54	85.79	58 12	15.75	8	88.66	56 08
13.56	24	79.14	50 49	15.75	33	81.09	52 27	12.91	43	83.27	54 54	13.56	55	85.82	53 49	15.75	8	88.74	58 55
14.92	24	79.15	54 16	15.56	33	81.14	59 05	15.22	43	83.28	57 36	15.75	55	85.94	58 59	11.63	9	88.92	52 38
14.92	24	79.16	52 13	13.97	33	81.21	51 39	15.09	43	83.36	51 58	14.64	55	86.01	59 33	15.75	9	88.95	53 37
15.15	24	79.25	50 13	15.56	33	81.22	50 42	15.75	43	83.37	56 17	15.75	56	86.06	56 19	15.75	9	89.02	53 48
15.75	25	79.32	52 04	15.75	33	81.24	58 45	15.75	44	83.44	54 10	15.41	56	86.12	53 39	14.80	10	89.10	50 25
14.92	25	79.32	52 45	14.29	34	81.29	51 03	14.80	44	83.54	56 11	13.44	56	86.14	53 05	12.43	10	89.20	54 10
15.56	25	79.44	59 10	15.41	34	81.35	54 17	12.74	44	83.59	57 58	15.75	56	86.15	53 29	15.75	10	89.21	50 40
14.80	25	79.47	55 33	15.56	34	81.37	54 28	15.56	44	83.59	53 34	15.75	56	86.24	55 07	12.58	10	89.23	55 48
14.97	26	79.53	57 59	13.44	34	81.37	52 56	15.75	44	83.62	59 03	15.75	57	86.33	51 09	10.95	10	89.28	56 54
15.75	26	79.56	52 29	15.41	34	81.42	50 29	13.52	44	83.64	55 08	13.26	57	86.40	57 42	12.84	11	89.32	53 41
12.28	26	79.57	54 06	15.75	34	81.44	56 26	14.20	45	83.65	57 17	15.75	57	86.41	56 06	15.09	11	89.32	52 20
14.39	26	79.59	58 46	15.41	35	81.49	59 38	13.08	45	83.72	54 22	14.80	57	86.42	59 10	11.63	11	89.37	54 22
11.75	26	79.66	50 44	15.75	35	81.56	55 39	14.20	45	83.76	57 35	11.04	57	86.44	57 03	15.75	11	89.38	56 17
15.28	26	79.68	50 01	14.92	35	81.57	56 50	15.75	45	83.82	53 24	14.54	58	86.56	54 58	14.44	12	89.50	58 51
14.97	27	79.75	54 57	15.56	35	81.62	59 21	14.29	46	83.86	50 15	14.92	58	86.58	59 45	14.97	12	89.50	55 44
15.56	27	79.77	58 10	15.41	35	81.65	50 04	15.28	46	83.92	55 31	15.75	58	86.65	55 41	14.24	12	89.66	50 34
15.75	27	79.82	56 47	15.28	36	81.71	56 02	15.75	46	83.95	56 20	15.56	59	86.88	53 42	13.08	13	89.72	57 54
15.75	27	79.84	54 38	14.80	36	81.74	51 33	15.75	46	84.00	52 21	14.80	57 0	86.93	53 22	12.58	13	89.74	56 18
13.68	28	79.99	59 44	15.56	36	81.76	55 01	15.28	47	84.10	54 33	15.75	0	87.01	52 19	15.56	13	89.78	54 32
14.97	28	80.01	58 35	14.80	36	81.82	56 42	14.80	47	84.23	58 54	14.54	0	87.05	55 12	12.14	13	89.78	55 41
15.75	28	80.06	56 23	15.09	36	81.86	57 30	15.56	47	84.28	53 19	14.20	0	87.09	51 41	14.80	13	89.81	53 44
15.75	28	80.10	54 23	14.80	36	81.86	57 50	14.64	48	84.31	55 27	14.44	0	87.10	51 51	15.75	13	89.91	50 35
13.97	28	80.17	57 44	15.09	36	81.86	55 07	15.09 :	48	84.39	58 05	15.22	0	87.11	53 33	15.75	14	89.96	54 04
15.75	29	80.29	55 34	14.70	37	82.01	57 19	14.97	48	84.46	50 58	12.74	1	87.16	53 07	15.41	14	89.96	52 08
15.41	29	80.30	58 13	15.75	37	82.04	51 55	15.09	48	84.48	55 43	15.15	1	87.26	59 58	13.93	14	89.99	59 24
15.75	29	80.32	52 14	11.05	37	82.11	53 43	15.75	48	84.50	57 21	15.56	1	87.31	58 37	15.41	15	90.15	52 49
15.56	29	80.34	50 31	14.49	38	82.18	59 48	15.75	49	84.52	52 10	15.75	2	87.36	58 28	14.44	16	90.39	53 11
15.28	29	80.37	50 51	14.92	38	82.33	51 36	15.41	49	84.55	54 15	12.58	2	87.42	52 58	14.64	16	90.41	52 19
15.75	30	80.42	57 17	15.22	39	82.38	55 10	13.37	49	84.59	56 24	12.43	2	87.51	59 29	15.75	16	90.42	59 48
15.75	30	80.43	53 17	15.75	39	82.40	58 55	15.09	49	84.62	56 31	15.75	3	87.62	58 30	13.84	16	90.42	51 11

25 prec. + 60 sec. + 4′ 4″.

801—850				851—900				901—950				951—1000				1001—1050			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′ y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.41	57 18	90.90	51 50	14.29	57 39	95.44	54 45	15.75	57 58	99.47	52 10	14.97	58 23	5.08	52 41	14.97	58 49	10.52	58 33
15.75	18	90.91	56 15	14.97	39	95.45	51 42	15.09	58	99.58	52 20	13.26	24	5.10	55 03	14.29	49	10.61	52 34
14.15	18	90.98	56 43	11.63	39	95.47	57 40	14.80	58	99.67	53 08	15.75	26	5.63	57 35	14.92	49	10.67	56 33
15.09	18	90.98	55 01	14.39	39	95.52	56 46	14.80	59	99.69	55 21	15.56	26	5.68	57 15	13.26	49	10.68	56 18
15.41	20	91.40	57 06	15.75	39	95.52	50 46	13.93	59	99.70	58 53	13.84	26	5.70	58 18	11.02	50	10.72	55 53
12.74	21	91.46	57 58	15.56	40	95.59	51 01	14.54	59	99.87	50 59	14.44	27	5.74	50 53	14.92	51	11.02	55 55
15.09	22	91.70	52 40	15.75	40	95.79	59 25	15.56	58 0	99.93	59 24	15.75	27	5.87	56 33	10.36	51	11.04	51 31
12.58	22	91.74	58 16	15.75	41	95.85	57 34	14.97	0	0.03	58 44	15.75	27	5.95	54 49	15.03	52	11.30	59 44
12.14	22	91.77	53 09	12.81	41	95.96	50 05	15.75	0	0.03	52 48	12.74	28	6.05	59 12	14.80	52	11.35	53 34
13.97	22	91.86	51 29	15.75	42	96.10	52 06	14.29	1	0.17	51 34	14.20	28	6.17	55 06	13.93	53	11.37	50 54
15.57	22	91.87	56 03	13.93	42	96.12	59 34	12.14	1	0.20	50 57	14.44	29	6.24	57 00	11.39	53	11.40	52 52
15.56	23	92.00	53 40	15.28	42	96.17	52 21	15.75	2	0.49	53 00	15.75	29	6.33	53 45	14.70	53	11.51	56 33
15.28	23	92.02	50 03	13.44	43	96.30	52 58	13.44	3	0.58	51 17	15.56	30	6.46	58 38	14.97	54	11.75	50 48
14.64	23	92.04	57 19	13.52	43	96.35	51 56	15.75	3	0.60	51 43	15.75	30	6.58	58 10	14.86	55	11.84	59 48
15.75	24	92.15	54 21	15.75	43	96.40	50 54	13.93	4	0.85	58 43	15.75	30	6.60	58 35	14.29	55	11.94	59 12
15.75	25	92.36	53 48	14.15	44	96.43	56 35	15.75	6	1.23	55 53	15.75	31	6.69	55 07	14.80	56	12.07	58 30
15.41	26	92.56	52 23	10.89	45	96.69	53 14	15.75	6	1.25	55 40	11.75	32	6.99	57 18	12.84	57	12.26	57 42
14.39	26	92.56	56 47	12.58	45	96.74	54 01	15.75	6	1.29	58 56	14.97	32	7.03	54 18	14.80	57	12.27	55 22
14.97	26	92.59	57 32	15.41	45	96.81	52 25	15.75	7	1.49	50 07	12.74	33	7.07	50 55	13.97	57	12.38	52 47
14.54	26	92.59	58 41	13.19	45	96.85	51 32	15.75	8	1.70	57 59	13.44	34	7.28	53 52	13.56	57	12.41	50 39
14.44	26	92.62	54 21	14.64	46	97.01	51 42	14.06	8	1.71	59 37	14.29	34	7.31	57 50	13.37	58	12.47	58 13
15.41	26	92.69	53 32	12.74	46	97.02	54 04	15.56	9	1.91	58 44	12.74	34	7.32	52 16	14.39	58	12.58	59 03
13.72	26	92.70	51 57	15.09	47	97.16	58 27	15.41	10	2.10	58 56	15.75	34	7.34	51 03	14.39	58	12.58	59 46
14.92	26	92.74	56 25	15.75	47	97.26	56 41	14.06	11	2.29	58 20	15.75	34	7.45	56 28	15.22	59 0	13.05	58 06
15.75	27	92.89	50 54	14.97	47	97.28	58 34	15.09	11	2.38	50 51	14.97	34	7.45	53 50	15.75	0	13.07	53 30
12.20	28	93.00	50 31	13.08	48	97.41	58 10	15.75	12	2.57	56 17	15.56	35	7.55	56 55	10.60	1	13.25	55 08
15.75	29	93.18	57 31	15.56	49	97.51	59 22	13.84	12	2.67	57 06	15.41	35	7.58	53 09	13.56	1	13.32	57 19
13.72	29	93.36	59 08	14.80	49	97.53	58 53	15.75	15	3.16	55 13	14.97	36	7.70	57 53	13.08	2	13.39	55 20
15.22	29	93.37	51 10	15.75	49	97.67	59 17	15.75	16	3.56	57 56	15.75	36	7.72	57 26	15.75	3	13.63	56 36
13.26	30	93.43	58 17	15.75	50	97.78	51 55	14.44	17	3.60	53 13	13.93	36	7.73	51 39	15.75	4	13.79	59 15
15.75	30	93.51	50 38	15.75	50	97.87	52 05	12.74	17	3.69	56 31	15.75	36	7.75	59 23	13.97	4	13.81	51 08
13.97	30	93.54	51 50	14.44	50	97.88	51 28	15.75	17	3.70	55 56	14.80	36	7.85	57 11	14.97	4	13.96	53 40
15.28	31	93.68	50 15	12.43	50	97.90	55 59	15.75	17	3.70	55 31	14.54	38	8.19	50 10	15.41	56 0	74.07	6 29
8.12*	32	93.86	56 31	12.74	51	97.97	55 38	14.92	17	3.71	50 40	15.75	39	8.36	56 06	13.84	0	74.13	8 31
14.06	32	93.93	59 32	15.22	51	98.00	51 41	12.91	17	3.72	52 40	14.80	39	8.56	57 23	15.56	1	74.17	1 21
15.22	32	93.94	59 22	12.52	52	98.16	56 16	9.07*	17	3.74	51 14	13.84	40	8.58	57 05	15.75	1	74.28	2 58
14.15	32	93.98	51 57	15.75	52	98.18	54 12	14.80	18	3.84	54 12	15.75	40	8.73	55 50	15.75	1	74.32	0 34
13.56	33	94.17	57 59	14.39	52	98.20	52 10	13.84	18	3.90	56 18	14.70	41	8.81	56 17	15.56	2	74.36	6 28
15.75	34	94.31	59 34	13.88	53	98.38	59 56	14.97	18	3.93	51 52	12.58	42	9.16	52 12	15.75	2	74.37	0 17
14.80	34	94.39	55 15	15.56	53	98.58	54 18	14.97	18	3.98	52 22	14.97	43	9.21	52 05	14.70	2	74.57	5 54
12.14	34	94.39	51 44	15.75	54	98.59	53 02	12.43	19	4.09	56 50	13.52	43	9.29	50 50	14.80	2	74.57	4 57
15.75	34	94.39	52 28	15.75	55	98.89	51 14	15.15	20	4.24	50 36	13.76	44	9.46	52 59	14.80	3	74.62	5 35
13.72	35	94.55	57 58	14.39	55	98.90	59 50	14.15	20	4.31	53 18	15.75	45	9.67	55 51	15.75	3	74.66	2 25
14.92	35	94.60	56 58	14.92	55	98.96	50 33	15.75	21	4.62	59 48	15.09	45	9.67	51 07	15.75	3	74.67	8 54
14.20	35	94.63	54 47	15.28	55	98.99	52 28	15.75	22	4.82	56 12	14.06	45	9.74	50 37	14.29	3	74.67	6 42
13.93	37	94.94	58 44	14.02	56	99.08	59 35	15.75	22	4.84	55 59	15.75	46	9.91	53 03	15.56	3	74.67	0 57
14.02	37	95.03	59 59	15.28	56	99.09	54 35	13.72	22	4.86	59 13	14.64	46	10.07	50 50	15.22	3	74.72	3 02
15.03	38	95.23	50 25	13.97	56	99.13	57 27	13.19	23	4.90	56 57	14.15	47	10.13	56 44	11.88	3	74.73	1 11
15.41	38	95.30	51 36	14.64	56	99.16	54 37	14.44	23	4.91	53 27	15.56	48	10.32	51 53	14.06	3	74.76	3 28
15.75	39	95.37	53 11	13.84	57	99.30	58 18	13.56	23	5.00	58 47	15.56	48	10.45	55 44	15.75	4	74.85	5 48

25 prec. + 60 sec. + 4′ 7″.

1051—1100				1101—1150				1151—1200				1201—1250				1251—1300			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.15	56 4	74.86	0 20	14.80	56 14	77.16	2 22	14.80	56 30	80.44	1 23	15.75	56 43	83.33	1 45	15.75	56 56	86.16	4 15
14.80	4	74.87	2 11	15.75	15	77.25	3 34	15.75	30	80.48	4 49	13.26	43	83.36	8 49	14.29	56	86.19	1 45
15.41	4	74.97	4 26	12.43	15	77.33	7 15	13.56	30	80.48	2 03	12.84	43	83.42	5 21	15.75	56	86.20	4 46
14.97	4	75.00	7 11	11.51	15	77.38	1 33	15.28	30	80.53	1 18	15.75	43	83.43	3 22	15.09	56	86.21	1 01
14.80	5	75.03	8 48	14.64	16	77.42	9 44	14.92	30	80.55	9 18	14.80	43	83.44	8 10	15.75	57	86.28	0 04
15.75	5	75.03	3 35	15.75	16	77.47	8 12	14.92	30	80.55	9 11	15.75	44	83.51	4 44	13.37	57	86.28	3 02
13.37	5	75.06	0 32	14.06	16	77.52	9 02	15.75	30	80.56	6 32	15.22	44	83.53	2 36	15.75	58	86.53	7 31
14.20	5	75.10	0 04	14.54	16	77.53	6 43	15.75	31	80.64	1 30	14.39	44	83.59	7 14	14.15	58	86.57	3 50
15.75	6	75.26	2 27	14.80	16	77.55	1 10	14.39	31	80.66	9 26	14.92	44	83.62	9 09	15.75	58	86.68	9 38
13.84	6	75.28	0 28	15.75	17	77.66	7 24	15.75	31	80.71	6 43	12.74	45	83.69	9 42	12.01	59	86.69	3 00
15.75	6	75.28	1 18	14.80	17	77.71	1 41	14.97	31	80.74	6 03	15.75	45	83.75	9 25	15.75	59	86.72	9 59
12.14	6	75.41	9 17	14.20	18	77.86	5 18	14.39	31	80.82	5 32	15.75	45	83.79	0 33	14.49	59	86.74	0 06
12.74	7	75.47	3 38	12.28	18	77.99	4 20	14.92	32	80.90	2 07	14.44	45	83.83	7 48	13.01	59	86.78	2 52
14.97	7	75.48	5 38	13.19	19	78.05	0 53	15.22	32	80.92	5 36	15.56	46	83.91	5 59	15.75	59	86.83	0 18
15.28	7	75.51	0 04	14.80	19	78.07	3 26	15.56	32	80.96	6 01	14.97	46	83.95	2 36	12.58	57 0	86.91	5 40
14.92	7	75.56	7 32	14.97?	19	78.08	8 00	14.06	32	80.98	4 15	14.70	46	83.96	8 14	15.28	0	86.96	2 34
14.97	7	75.63	6 01	15.41	19	78.15	8 32	13.33	32	81.05	1 24	15.75	46	83.99	3 08	15.75	0	87.08	2 31
15.75	8	75.69	4 30	15.56	19	78.25	6 05	14.39	32	81.07	5 39	11.01	46	84.07	8 01	15.75	0	87.10	5 27
14.70	8	75.71	7 00	15.75	19	78.26	9 04	14.44	33	81.09	3 06	15.75	47	84.18	3 30	14.97	1	87.14	6 22
15.09	8	75.71	3 45	15.75	20	78.27	7 04	14.92	33	81.14	8 28	13.80	47	84.18	9 53	14.92	2	87.42	0 56
15.75	8	75.81	9 55	14.15	20	78.36	5 37	14.92	33	81.21	2 18	15.56	47	84.18	6 02	14.92	2	87.52	6 47
14.92	8	75.82	2 24	15.56	21	78.56	9 42	15.56	33	81.23	5 43	14.64	47	84.22	6 53	15.56	3	87.59	8 45
14.29	9	75.90	5 58	15.75	21	78.63	0 35	15.75	34	81.29	0 07	15.41	47	84.28	3 05	15.28	3	87.62	1 06
12.43	9	76.05	8 54	15.75	22	78.74	2 54	10.29	34	81.33	6 24	14.54	47	84.29	6 23	14.92	3	87.74	8 22
15.22	9	76.07	9 22	15.75	22	78.80	2 38	15.75	34	81.50	4 14	14.70	47	84.30	7 14	10.83	4	87.80	5 44
14.97	9	76.07	7 43	15.56	22	78.83	2 15	11.88	35	81.52	1 01	14.44	48	84.34	8 15	15.41	4	87.83	0 08
15.41	9	76.08	9 32	13.97	22	78.83	6 03	15.28	35	81.52	0 00	14.20	48	84.41	1 13	15.75	4	87.87	4 30
15.28	10	76.19	6 15	15.22	23	79.03	0 57	15.75	35	81.64	0 04	15.22	48	84.43	2 49	15.09	4	87.93	6 46
15.56	10	76.21	8 00	13.76	23	79.05	7 31	11.15	35	81.70	8 26	15.56	48	84.47	0 05	15.75	5	88.09	7 21
14.44	10	76.23	8 08	15.41	23	79.10	7 01	14.70	35	81.71	2 41	14.92	49	84.62	5 29	13.01	5	88.12	6 30
15.75	10	76.23	0 16	14 80	24	79.14	3 51	15.56?	36	81.88	4 38	15.56	49	84.74	7 40	15.41	6	88.24	2 19
15.56	10	76.31	4 17	15.75	24	79.15	5 36	15.75	38	82.16	9 59	12.91	50	84.83	2 43	11.75	6	88.25	1 41
14.92	10	76.32	6 23	15.56	24	79.31	0 08	14.24	38	82.26	0 16	13.33	50	84.86	9 45	15.41	7	88.50	6 04
15.22	11	76.34	3 53	15.75	25	79.41	8 24	13.37	38	82.30	6 25	14.97	51	84.99	4 54	15.56	7	88.62	4 37
15.56	11	76.41	5 04	15.03	25	79.42	9 46	15.09	38	82.34	2 39	14.97	51	85.03	3 24	15.75	8	88.67	8 40
15.75	11	76.46	3 04	15.75	25	79.47	9 21	14.06	39	82.42	0 36	15.75	51	85.07	8 03	15.09	8	88.70	3 02
15.75	11	76.50	2 47	15.75	25	79.54	0 31	10.87	39	82.45	9 24	14.97	51	85.13	3 25	15.09	8	88.79	1 37
14.64	12	76.55	1 27	14.29	26	79.56	5 46	10.86	40	82.62	4 02	14.64	52	85.20	3 26	12.91	8	88.80	6 01
13.64	12	76.56	6 30	15.75	26	79.57	3 06	14.70	40	82.65	4 25	14.80	52	85.25	7 39	15.75	9	88.89	4 10
14.97	12	76.56	2 53	15.75	26	79.59	2 44	15.75	40	82.74	8 38	15.56	52	85.33	7 53	12.74	10	89.10	2 55
15.75	12	76.69	7 42	15.09	26	79.62	1 08	15.75	40	82.79	1 45	15.75	52	85.33	8 32	15.56	10	89.17	8 32
15.75	12	76.72	5 49	15.75	27	79.83	2 45	15.75	40	82.81	8 22	15.56	52	85.37	9 49	15.09	10	89.26	3 10
15.28	13	76.82	6 04	13.97	27	79.93	4 28	15.56	41	82.83	2 25	15.75	52	85.40	8 39	14.80	10	89.28	5 52
15.41	13	76.84	2 57	14.20	27	79.98	2 05	15.75	41	82.98	9 30	15.75	54	85.65	0 31	13.97	11	89.38	7 03
15.75	13	76.87	9 07	14.97	28	79.99	8 29	14.97	42	83.14	8 04	15.75	54	85.82	2 24	14.15	13	89.78	3 33
15.15	13	76.90	0 22	13.33	28	79.99	3 46	15.75	42	83.14	4 09	13.84	55	85.84	3 05	14.29	14	89.95	2 00
14.80	14	76.99	8 35	15.56	28	80.03	6 54	14.64	42	83.18	5 46	14.44	55	85.86	6 45	14.92	14	89.99	2 17
15.75	14	77.04	5 41	15.28	28	80.17	7 22	15.56	42	83.19	3 54	15.75	55	85.88	1 45	11.23	14	90.04	8 49
14.44	14	77.13	4 44	15.56	28	80.19	8 35	13.76	42	83.22	5 07	14.64	55	86.04	3 05	13.97	14	90.10	3 39
14.54	14	77.14	0 42	14.92	29	80.25	0 44	14.20	43	83.33	6 05	14.39	56	86.06	5 13	15.56	15	90.23	7 57

25 prec. + 60 sec. + 4′ 4″.

Area 64.

1301—1350				1351—1400				1401—1450				1451—1500				1501—1550			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.98	57 15	90.24	2 24	15.75	57 34	94.42	8 13	15.75	57 56	99.15	5 30	12.43	58 18	3.96	9 17	12.58	58 53	11.52	2 40
15.41	15	90.30	3 01	12.74	35	94.49	7 24	15.75	56	99.22	2 18	15.75	21	4.47	3 54	13.01	54	11.75	4 24
13.76	16	90.41	6 43	12.84	35	94.69	3 23	15.75	57	99.33	5 00	15.09	21	4.50	9 37	14.97	55	11.96	4 13
14.70	16	90.46	4 46	15.75	36	94.84	4 53	14.54	57	99.39	6 32	14.92	23	4.87	6 54	12.43	56	12.01	5 47
15.56	17	90.60	0 08	13.84	37	95.08	3 26	15.56	58	99.65	7 43	15.75	23	4.95	5 18	14.44	57	12.33	8 08
14.97	17	90.61	3 54	15.56	39	95.39	3 06	15.75	58 0	99.96	4 50	15.75	24	5.19	9 01	15.28	58	12.48	2 25
11.27	17	90.72	9 31	12.84	39	95.39	0 34	15.75	0	99.97	5 07	13.97	24	5.23	2 36	13.19	58	12.51	4 12
15.41	17	90.79	5 36	12.49	39	95.47	0 10	13.56	0	99.97	2 24	13.93	25	5.33	7 05	14.92	59	12.70	8 28
14.97	18	90.96	4 52	15.75	39	95.54	2 06	15.75	0	0.00	8 43	14.80	25	5.40	2 40	15.41	59	12.80	8 19
15.75	18	90.97	3 15	13.19	40	95.71	9 08	14.29	0	0.09	6 03	14.06	25	5.49	1 27	13.44	59	12.80	2 16
15.75	18	90.98	0 30	15.75	40	95.72	1 39	15.75	1	0.19	3 59	15.75	26	5.53	0 56	14.54	59 0	13.05	5 09
14.70	18	91.02	5 57	14.64	40	95.79	8 44	11.88	1	0.21	6 08	14.92	27	5.88	9 08	15.75	1	13.19	7 24
14.97	19	91.19	7 33	15.28	41	95.80	2 25	15.75	1	0.25	0 57	15.22	27	5.92	8 27	15.75	3	13.52	2 00
14.44	20	91.36	5 39	13.76	41	95.81	8 39	10.93	1	0.26	4 48	15.41	27	5.94	8 22	14.20	3	13.62	7 36
15.09	20	91.46	9 48	14.54	42	96.04	9 26	13.93	2	0.52	9 47	14.80	28	5.96	7 40	15.75	4	13.88	9 05
15.41	21	91.54	3 06	15.41	42	96.11	7 03	13.84	3	0.67	8 26	14.92	29	6.24	3 18	14.97	5	13.98	1 30
15.75	22	91.68	5 39	15.56	42	96.13	4 52	15.75	4	0.90	8 24	12.43	29	6.33	4 58	15.75	56 1	74.21	19 21
14.06	22	91.70	0 39	13.97	42	96.21	9 29	14.15	4	0.95	6 11	13.08	30	6.55	8 31	15.75	1	74.21	11 13
15.41	22	91.80	2 55	14.92	43	96.30	3 15	14.92	5	1.09	5 14	12.43	33	7.06	2 28	15.22	1	74.22	12 25
12.14	22	91.81	3 52	15.41	44	96.43	0 46	15.75	5	1.10	1 36	15.75	35	7.49	9 47	10.93	1	74.23	14 35
14.70	22	91.86	8 31	15.75	44	96.45	2 37	15.22	5	1.15	4 53	15.56	36	7.79	8 49	15.75	1	74.25	17 05
15.41	23	91.93	7 38	14.39	44	96.46	0 10	15.75	6	1.28	2 20	15.09	36	7.79	4 08	12.43	1	74.26	14 16
14.20	23	91.97	2 06	15.75	45	96.69	1 24	14.54	7	1.45	6 24	14.39	37	7.93	7 19	15.22	1	74.27	10 48
11.39	23	92.06	8 20	9.79	46	96.87	4 36	15.28	7	1.48	0 41	15.75	37	8.09	3 15	14.80	1	74.28	19 49
14.80	24	92.20	0 04	15.75	46	96.90	3 34	14.92	7	1.49	1 07	12.84	38	8.15	3 47	15.75	1	74.29	16 15
15.22	25	92.34	3 25	15.56	46	96.98	1 02	15.75	7	1.52	2 42	14.70	38	8.18	6 01	15.75	1	74.39	16 36
13.64	25	92.36	7 49	15.28	47	97.15	6 16	13.01	8	1.70	0 36	15.75	39	8.47	7 12	14.70	2	74.44	17 18
11.63	25	92.44	4 39	15.56	47	97.16	9 45	14.29	8	1.75	2 15	14.80	40	8.56	5 05	14.80	2	74.50	16 08
13.56	25	92.49	1 14	14.29	47	97.29	7 00	12.01	8	1.78	8 26	14.92	40	8.74	4 39	15.75	2	74.56	17 27
15.75	26	92.71	7 21	13.76	47	97.29	3 57	15.75	8	1.80	6 43	13.76	40	8.76	3 14	15.75	2	74.61	18 54
15.75	26	92.72	9 54	15.56	48	97.41	9 32	15.75	8	1.82	8 54	14.15	41	8.84	2 28	14.06	3	74.63	10 50
14.70	26	92.75	8 07	12.74	48	97.44	6 40	15.75	9	1.94	9 21	14.29	41	8.88	0 30	15.75	3	74.64	19 07
14.39	27	92.83	2 04	14.44	49	97.53	2 25	15.75	9	1.99	9 05	11.63	41	8.89	8 25	15.22	3	74.67	10 58
14.97	27	92.97	8 16	15.75	49	97.63	3 54	12.43	10	2.22	6 40	15.09	43	9.21	6 19	12.91	3	74.79	16 21
14.39	28	93.00	4 13	15.75	49	97.64	2 17	12.37	11	2.41	0 07	12.01	43	9.22	9 23	15.75	4	74.88	18 00
14.49	28	93.05	0 18	13.44	49	97.67	3 33	15.41	12	2.53	6 32	14.44	43	9.38	2 14	15.41	4	74.95	17 10
14.92	28	93.07	7 12	12.43	50	97.78	5 56	15.28	12	2.56	7 52	14.92	44	9.41	3 19	13.97	4	75.05	18 11
15.75	28	93.13	6 43	15.75	50	97.89	9 03	15.41	13	2.75	1 04	15.75	45	9.67	9 10	15.75	5	75.12	17 57
15.75	29	93.21	3 32	12.98	50	97.94	7 14	15.75	13	2.77	4 27	15.75	45	9.75	5 39	15.75	5	75.13	13 14
15.22	29	93.33	7 45	15.41	51	98.00	9 37	15.75	13	2.91	3 21	15.75	46	9.94	5 35	15.56	5	75.15	16 59
14.92	30	93.42	9 06	14.97	51	98.00	3 01	14.39	14	3.06	5 25	15.75	47	10.17	6 43	15.75	5	75.16	19 30
12.74	30	93.43	1 24	15.75	52	98.18	3 44	15.28	16	3.52	2 53	15.56	47	10.26	7 41	13.08	5	75.18	14 45
15.75	30	93.45	3 34	15.75	52	98.19	6 10	13.97	17	3.61	2 41	15.09	48	10.29	2 06	14.20	5	75.21	15 53
12.43	30	93.49	0 59	11.24	52	98.21	2 32	15.28	17	3.64	1 07	15.22	48	10.32	6 18	14.54	6	75.28	13 02
14.54	31	93.65	7 33	12.58	52	98.37	2 31	15.56	17	3.68	4 09	14.15	48	10.36	4 13	13.93	6	75.29	10 44
15.09	31	93.71	2 36	15.56	54	98.74	6 36	13.19	18	3.79	9 11	13.26	49	10.65	7 45	15.75	6	75.30	19 08
15.09	31	93.76	2 42	14.39	55	98.89	4 22	14.39	18	3.86	8 27	14.44	50	10.88	2 06	12.84	6	75.37	18 36
15.75	32	94.02	3 44	14.15	55	98.92	7 52	14.20 :	18	3.87	0 53	12.58	51	11.00	4 46	15.56	7	75.52	18 19
15.75	33	94.10	8 25	15.75	55	98.99	5 43	14.06	18	3.90	6 03	14.80	53	11.40	6 02	15.75	7	75.54	10 28
15.56	34	94.40	2 43	15.75	55	99.01	6 44	15.75	18	3.95	5 05	15.75	53	11.48	6 45	12.58	7	75.55	11 00

25 prec. + 60 sec. + 4′ 7″.

1551—1600				1601—1650				1651—1700				1701—1750				1751—1800			
Int. magn.	α	x	y+o'	Int. magn.	α	x	y+o'	Int. magn.	α	x	y+o'	Int. magn.	α	x	y+o'	Int. magn.	α	x	y+o'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.75	56 7	75.56	10 01	15.75	56 24	79.24	15 09	15.56	56 41	83.00	19 00	14.06	56 57	86.30	17 19	15.56	57 18	90.91	13 23
15.75	7	75.59	10 39	15.75	24	79.24	13 43	14.20	41	83.00	17 51	15.75	57	86.38	15 24	13.72	18	90.91	13 55
12.58	7	75.60	12 47	15.75	24	79.29	15 33	14.80	42	83.08	12 16	15.75	57	86.39	11 23	15.41	18	90.92	10 19
15.75	8	75.74	15 35	14.64 :	24	79.35	18 22	15.56	42	83.10	14 52	11.75	57	86.43	14 18	14.97	18	90.98	15 59
14.64	8	75.86	19 34	14.80	25	79.44	14 34	14.70	42	83.11	17 58	15.75	58	86.67	11 54	15.56	20	91.29	16 16
15.75	8	75.88	14 37	15.22	25	79.45	14 59	15.75	42	83.15	16 23	15.75	58	86.71	10 36	15.09	20	91.35	16 29
15.75	8	75.91	12 33	15.56	25	79.49	10 47	14.80	42	83.25	18 50	14.80	59	86.72	15 36	14.92	21	91.49	14 04
13.97	9	75.98	18 31	15.09	25	79.52	12 52	13.76	42	83.26	13 45	14.29	59	86.88	10 51	15.75	21	91.51	18 51
14.92	9	76.05	19 55	15.75	26	79.62	10 51	15.41	43	83.29	12 35	15.41	59	86.89	17 20	14.70	21	91.58	10 21
14.29	9	76.08	18 31	14.70	26	79.67	15 34	15.75	43	83.35	13 10	14.29	59	86.91	16 38	14.97	22	91.79	14 03
13.01	10	76.25	17 40	9.81	26	79.69	18 00	14.80	43	83.39	10 20	13.01	59	86.93	18 40	15.75	22	91.84	15 29
15.75	10	76.25	15 28	14.97	26	79.71	12 53	14.44	43	83.44	13 50	13.26	57 0	87.05	12 41	15.75	22	91.84	10 09
13.93	10	76.27	18 05	14.54	26	79.78	11 35	13.08	44	83.54	13 56	15.28	0	87.10	14 06	15.75	22	91.87	16 04
15.75	10	76.28	12 13	15.75	27	79.85	12 29	13.93	44	83.57	18 37	13.56	1	87.20	15 37	15.75	24	92.16	13 41
12.43	10	76.28	18 57	15.56	27	79.98	18 27	12.49	44	83.68	10 16	15.35	1	87.31	10 28	15.75	24	92.19	13 20
14.44×	11	76.39	15 46	15.75	27	79.98	12 06	14.92	44	83.69	14 59	14.97	3	87.64	16 59	14.64	24	92.28	12 04
15.75	11	76.50	13 43	15.56	28	80.04	12 01	14.29	45	83.76	15 46	10.66	3	87.67	19 57	15.09	27	92.87	17 32
13.76	11	76.55	10 21	11.88	28	80.05	17 08	14.15	45	83.83	17 35	13.56	3	87.68	17 11	15.75	27	92.88	11 34
15.75	12	76.59	10 45	15.41	29	80.32	15 41	13.44	46	84.01	14 37	15.28	4	87.84	12 38	12.91	27	92.90	15 40
15.56	13	76.94	15 12	13.97	29	80.39	19 34	12.58	46	84.04	13 38	13.64	4	87.91	18 29	15.56	27	92.93	15 23
15.75	14	77.15	12 51	14.39	29	80.44	13 37	13.44	46	84.07	17 59	14.92	5	88.12	15 11	15.75	27	92.95	18 34
14.80	14	77.15	11 24	15.56	30	80.62	10 56	15.41	46	84.11	11 16	14.92	5	88.13	12 43	14.64	28	93.09	16 10
14.92	14	77.16	16 01	13.56	31	80.73	16 22	15.41	47	84.31	12 42	15.22	6	88.24	17 12	15.75	28	93.10	15 41
14.54	15	77.23	15 40	14.54	31	80.80	11 35	13.08	48	84.47	15 51	13.56	6	88.29	15 25	14.29	29	93.36	16 26
15.56	15	77.26	19 20	15.75	32	80.94	12 21	14.29	48	84.49	17 11	14.92	6	88.37	12 43	13.52	30	93.45	13 31
15.75	15	77.32	10 53	15.41	32	81.04	14 45	15.75	49	84.61	11 56	14.70	7	88.47	13 51	15.56	30	93.58	10 55
15.75	15	77.38	14 57	14.97	32	81.06	15 31	13.26	49	84.68	16 37	13.93	7	88.61	13 43	15.22	31	93.66	18 36
15.75	15	77.41	14 47	9.50	33	81.14	16 32	13.76	49	84.70	14 51	14.20	7	88.63	19 59	12.01	31	93.80	15 38
15.75	16	77.52	14 07	14.97	34	81.33	13 46	13.56	49	84.76	14 35	14.80	8	88.70	19 33	10.75	31	93.80	13 54
15.41	16	77.56	13 34	15.75	34	81.44	19 26	12.43	50	84.83	15 00	14.64	8	88.70	10 32	14.97	32	93.89	12 26
12.74	16	77.57	18 36	15.56	35	81.58	15 52	14.15	50	84.83	12 51	14.80	8	88.75	18 31	11.75	32	93.97	16 19
14.80	16	77.61	11 07	14.44	35	81.69	14 58	15.75	51	85.02	14 23	11.51	8	88.81	13 48	15.56	33	94.09	12 07
14.64×	17	77.68	17 01	15.22	35	81.72	16 25	15.75	51	85.03	16 38	15.75	8	88.86	12 38	12.43	34	94.30	15 05
15.22	17	77.72	15 54	15.75	35	81.72	12 45	15.56	51	85.09	12 07	15.56	9	88.99	13 15	12.91	35	94.51	17 58
15.75	17	77.80	11 44	15.75	36	81.78	19 11	14.54	53	85.24	19 22	15.56	10	89.10	14 03	15.75	35	94.60	19 14
15.75	17	77.86	10 21	15.56	36	81.83	13 57	14.92	53	85.24	11 15	14.70	10	89.28	15 24	15.75	35	94.62	17 24
14.64	18	77.87	15 01	15.75	37	82.08	19 28	13.76	53	85.52	11 43	14.92	11	89.42	16 29	10.64	35	94.70	17 50
13.97	18	78.00	11 17	12.74	37	82.15	18 42	13.19	53	85.52	12 18	15.75	11	89.42	18 00	15.22	36	94.82	18 22
14.54	19	78.19	14 21	15.22	38	82.36	13 01	14.80	53	85.54	14 31	14.20	12	89.55	17 46	15.75	36	94.86	13 53
14.39	19	78.24	18 06	15.41	39	82.42	17 49	13.84	53	85.63	16 42	15.09	12	89.70	13 03	14.15	37	94.95	10 46
15.75	20	78.33	10 00	14.97	39	82.46	13 10	13.44	54	85.64	12 49	15.75	13	89.78	13 13	14.29	37	95.10	18 27
14.97	20	78.34	16 07	14.97	39	82.47	12 57	15.75	54	85.78	13 08	14.70	14	90.08	18 58	14.64	37	95.14	19 48
14.97	20	78.40	13 19	15.75	39	82.53	10 09	14.70	54	85.79	12 26	15.56	14	90.10	19 18	14.70	38	95.29	13 24
15.75	20	78.47	16 24	15.75	40	82.63	15 29	15.41	54	85.79	11 05	15.56	15	90.17	10 46	15.75	39	95.38	10 53
15.75	21	78.57	16 04	11.14	40	82.64	13 40	14.29	54	85.80	10 30	15.56	15	90.30	10 24	15.28	40	95.73	12 05
15.15	22	78.80	10 20	14.97	40	82.67	15 02	14.44	54	85.82	13 14	14.92	15	90.33	13 34	15.28	41	95.93	16 01
15.75	22	78.83	16 31	14.29	40	82.69	19 00	15.75	55	85.88	17 12	15.75	15	90.37	10 10	15.75	42	96.10	19 23
15.56	22	78.88	10 02	12.28	40	82.76	17 23	15.75	55	86.05	11 07	15.75	16	90.52	18 16	15.75	42	96.10	14 47
15.28	23	79.00	10 39	14.80	41	82.90	12 38	13.93	56	86.13	16 54	15.75	16	90.55	13 14	15.09	42	96.12	16 57
15.75	24	79.22	14 02	15.75	41	82.92	10 11	12.74	56	86.25	19 42	13.19	17	90.81	13 09	15.75	42	96.17	18 57

25 prec. + 60 sec. + 4′ 5″.

Area 64.

1801—1840				1841—1880				1881—1920				1921—1951			
Int. magn.	a	x	$y+o'$	Int. magn.	a	x	$y+o'$	Int. magn.	a	x	$y+o'$	Int. magn.	a	x	$y+o'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.93	57 42	96.18	19 32	15.41	57 55	98.93	13 41	15.28	58 18	3.87	10 46	15.41	58 40	8.68	10 50
13.64	42	96.19	13 38	14.97	55	98.95	13 15	15.75	18	3.96	13 17	15.75	40	8.74	13 36
14.92	43	96.25	16 58	15.75	55	98.95	16 26	14.97	19	4.01	18 00	14.92	44	9.53	14 10
14.20	43	96.27	11 10	14.15	56	99.07	19 18	14.64	19	4.03	19 59	15.75	44	9.59	11 13
15.41	43	96.28	14 23	14.64	56	99.09	11 43	14.15	20	4.28	11 31	14.80	46	9.83	14 32
14.20	44	96.52	12 13	15.22	57	99.30	12 42	15.75	20	4.35	10 35	14.39	48	10.47	19 17
15.75	44	96.58	15 12	13.68	57	99.34	10 28	14.54	20	4.36	15 29	14.39	49	10.62	19 27
15.75	45	96.71	18 21	15.75	59	99.69	11 18	14.39	21	4.54	12 16	15.75	49	10.63	13 54
14.64	46	96.90	13 16	15.75	58 0	0.00	14 53	12.43	23	4.90	15 02	15.75	50	10.72	14 12
14.54	46	96.95	12 06	14.64	1	0.14	10 19	13.72	23	4.90	14 11	12.91	50	10.72	12 25
15.41	47	97.10	10 43	13.76	1	0.15	10 47	15.75	23	4.97	19 51	15.56	50	10.77	11 43
14.97	47	97.10	15 23	14.70	1	0.19	13 52	13.76	24	5.17	17 38	13.52	50	10.87	15 51
15.75	47	97.14	14 14	13.26	1	0.30	18 35	14.39	25	5.36	13 44	13.52	51	11.02	19 47
15.75	47	97.24	16 15	15.75	3	0.63	14 31	14.64	26	5.56	12 36	15.09	51	11.02	18 59
15.75	48	97.31	19 09	15.28	4	0.88	15 34	15.75	26	5.58	13 23	15.56	51	11.10	17 30
14.15	48	97.31	18 09	15.75	5	1.06	12 15	15.75	26	5.67	19 16	13.97	52	11.18	11 33
13.93	48	97.35	17 37	14.64	5	1.17	12 30	15.75	28	5.94	12 53	13.44	52	11.26	11 30
15.22	48	97.41	14 39	15.75	5	1.18	19 11	14.29	28	5.96	15 03	15.75	53	11.35	19 17
15.41	49	97.64	10 10	12.74	7	1.56	11 08	14.29	28	6.04	10 10	15.56	54	11.62	12 53
15.75	50	97.84	13 45	12.91	8	1.70	16 33	14.06	29	6.20	11 52	15.41	54	11.65	15 07
15.75	50	97.86	15 33	15.75	9	1.85	16 03	13.15	29	6.20	10 24	14.29	55	11.82	19 29
15.75	50	97.87	13 17	12.37	9	1.97	10 04	14.97	30	6.42	17 38	14.97	55	11.83	19 46
12.14	50	97.91	17 47	13.93	10	2.09	18 11	15.28	31	6.66	13 30	13.15	58	12.45	14 24
13.44	50	97.94	14 19	13.76	11	2.34	19 23	13.56	32	6.83	15 54	15.75	58	12.56	10 57
15.22	50	97.95	16 46	15.28	12	2.54	18 29	14.29	32	6.87	14 38	14.92	58	12.60	17 20
14.70	51	97.97	17 10	15.56	12	2.64	16 24	13.64	33	7.14	13 24	14.29	59	12.68	17 39
15.28	51	97.97	15 13	15.75	12	2.67	15 07	12.98	33	7.16	11 03	13.76	59	12.68	15 51
14.97	51	97.99	15 02	15.75	13	2.74	16 01	15.28	34	7.31	17 08	15.75	59 0	12.85	14 27
14.06	52	98.18	11 39	14.97	13	2.77	14 52	15.56	34	7.44	14 22	15.75	1	13.09	12 12
14.97	52	98.19	10 35	13.56	14	2.96	10 55	15.75	35	7.46	16 49	15.28	1	13.19	16 03
15.28	52	98.29	10 45	13.93	14	3.01	11 44	13.97	35	7.57	12 33	15.75	2	13.45	11 10
14.29	52	98.31	15 56	13.37	14	3.10	10 34	14.97	35	7.66	19 05				
14.54	52	98.37	18 21	14.70	15	3.14	14 53	14.80	36	7.70	10 29				
13.56	53	98.40	18 46	14.80	16	3.36	13 35	14.06	37	7.89	11 26				
14.97	53	98.53	12 24	12.01	16	3.52	14 18	13.08	37	7.93	16 54				
14.15	53	98.54	17 08	14.44	17	3.58	16 51	15.75	37	7.99	13 43				
15.75	53	98.55	14 58	14.80	17	3.65	15 40	15.75	38	8.19	16 26				
11.14	54	98.62	11 02	15.28	18	3.80	15 31	15.28	38	8.23	11 38				
13.93	54	98.74	14 18	15.75	18	3.83	11 21	11.03	39	8.35	13 54				
12.88	55	98.86	10 12	15.28	18	3.86	14 14	14.70	39	8.47	19 47				

25 prec. + 60 sec. + 4′ 7″.

Area 65. Centre for 1900: $20^h\ 59^m + 30^\circ\ 10'$.

1—50				51—100				101—150				151—200				201—250			
Int. Magn.	α	x	$y+70'$	Int. Magn.	α	x	$y+70'$	Int. Magn.	α	x	$y+70'$	Int. Magn.	α	x	$y+70'$ / $y+10'$	Int. Magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.88	57 42	83.06	51 17	15.44	58 42	96.07	52 12	15.25	59 34	7.26	57 26	13.48	0 33	20.13	55 37	15.44	58 28	93.14	7 43
13.30	43	83.30	59 16	14.94	42	96.11	53 31	13.72	36	7.77	57 11	11.10	33	20.19	55 14	14.89	30	93.48	9 37
14.94	43	83.41	52 36	14.31	42	96.14	51 09	14.39	37	8.04	55 48	14.75	35	20.50	58 26	15.44	31	93.63	3 02
15.10	45	83.73	50 40	15.44	43	96.23	53 28	15.25	38	8.20	54 35	15.44	36	20.81	51 37	15.44	33	94.23	1 17
15.44	46	83.95	52 10	14.84	45	96.76	52 34	11.20	39	8.53	59 31	15.44	36	20.84	56 12	14.84	35	94.51	3 29
14.94	48	84.47	56 40	13.58	47	97.17	57 58	12.25	40	8.74	57 44	14.70	38	21.27	51 40	15.44	35	94.55	4 35
15.44	49	84.60	52 33	15.25	47	97.26	55 15	15.44	42	9.11	57 44	13.41	39	21.38	52 09	15.44	38	95.35	6 34
14.39	51	85.03	52 02	14.01	48	97.31	51 35	15.44	42	9.18	59 21	12.60	39	21.55	50 14	13.13	39	95.39	1 56
15.00	54	85.68	58 41	15.25	49	97.53	58 48	13.90	44	9.48	55 10	15.25	40	21.59	56 36	14.84	39	95.47	5 08
15.44	55	85.99	51 37	15.00?	49	97.53	57 58	15.44	44	9.59	54 08	15.00	40	21.59	51 32	15.16	42	96.07	0 11
14.75	59	86.68	51 20	15.10	50	97.76	56 54	15.44	46	9.98	51 18	15.25	43	22.25	58 40	13.76	43	96.32	8 57
13.20	58 0	87.03	56 07	15.44	50	97.78	55 25	14.48	46	10.03	55 20	13.94	43	22.32	55 27	15.00	44	96.49	6 37
14.08	0	87.05	50 51	14.70	50	97.94	59 26	15.44	46	10.04	54 09	15.44	57 43	83.42	2 13	14.43	44	96.62	9 49
15.44	1	87.18	53 16	15.25	51	97.97	54 50	12.95	47	10.13	57 23	13.30	45	83.80	7 55	14.31	48	97.47	6 14
15.44	1	87.20	52 38	13.65	52	98.33	56 37	14.61	48	10.30	50 30	14.39	46	83.96	3 44	13.58	49	97.56	5 23
15.10	2	87.35	59 07	15.25	53	98.53	50 06	15.44	50	10.75	54 53	13.41	47	84.13	0 06	15.44	50	97.92	4 50
15.00	2	87.47	56 45	14.75	54	98.65	50 21	15.44	50	10.88	52 12	12.53	47	84.25	7 08	15.44	51	98.02	5 09
12.78	3	87.59	51 27	15.44	54	98.76	50 10	14.08	52	11.16	58 37	15.44	49	84.55	0 39	13.83	53	98.48	8 08
15.00	3	87.70	51 51	12.43	55	98.81	54 02	15.44	52	11.29	51 15	13.76	50	84.75	2 48	13.83	54	98.62	4 56
14.75	4	87.96	55 28	15.44	58	99.50	58 14	11.73	53	11.41	56 43	14.84	53	85.42	9 56	14.61	54	98.63	0 28
13.83	5	88.16	50 37	14.70	58	99.50	50 20	15.44	54	11.67	59 52	14.84	53	85.46	8 18	14.19	54	98.67	1 58
12.08	7	88.59	54 02	15.44	59	99.74	56 48	14.12	55	11.92	52 29	14.75	54	85.72	3 40	14.08	55	98.85	3 36
15.10	10	89.24	53 21	15.25	59 1	0.14	56 40	12.60	55	11.96	53 22	12.60	54	85.77	9 47	15.44	57	99.37	2 08
14.70	10	89.26	50 27	15.44	1	0.26	50 29	15.44	59	12.71	56 24	14.12	58 0	86.93	6 25	14.48	59	99.68	6 42
14.19	11	89.40	50 59	12.25	9	1.90	56 00	15.44	0 0	13.09	58 31	14.31	0	86.99	3 18	13.76	59	99.75	4 25
13.65	13	89.75	59 26	15.44	10	2.25	52 23	15.44	2	13.40	51 51	7.7 1)	3	87.57	7 42	15.25	59 2	0.43	3 49
14.61	15	90.35	53 03	14.39	11	2.42	57 58	14.94	3	13.57	50 20	15.44	4	87.83	3 25	11.90	4	0.91	1 40
14.75	16	90.56	52 31	15.10	12	2.59	56 21	15.25	6	14.36	50 09	15.10	6	88.33	0 25	14.12	4	0.96	1 22
15.10	17	90.76	50 51	14.94?	14	2.99	53 52	14.27	8	14.65	54 50	14.57	6	88.42	0 22	15.44	6	1.28	3 03
14.94	18	90.82	56 02	12.08	14	3.07	59 11	15.10	9	15.04	59 08	13.83	6	88.42	2 54	14.08	7	1.48	8 46
14.70	18	90.97	56 13	15.44	14	3.08	56 27	14.27	10	15.08	52 19	14.39	8	88.66	9 10	11.55	8	1.77	6 49
15.25	19	91.08	51 44	14.27	15	3.19	58 56	13.90	11	15.32	59 19	15.44	10	89.14	0 18	15.10	11	2.33	6 41
14.75	19	91.17	50 51	15.44	15	3.26	51 35	14.70	12	15.51	52 37	14.75	12	89.52	5 05	12.43	12	2.67	2 13
12.95	22	91.78	51 50	15.00	18	3.84	55 25	15.44	12	15.58	55 28	15.44	12	89.52	6 15	13.76	13	2.74	2 07
14.61	22	91.81	55 54	15.44	18	3.90	53 57	15.44	13	15.77	55 17	13.72	13	89.92	6 34	13.65	13	2.87	7 33
14.19	24	92.25	52 58	15.25	18	3.90	59 42	13.94	13	15.78	57 58	14.12	14	90.05	0 10	14.61	15	3.20	6 51
14.39	25	92.45	57 57	14.12	19	4.03	53 21	14.27	15	16.26	55 14	15.44	15	90.26	3 57	9.04*	16	3.42	5 40
13.58	25	92.51	54 26	14.70	20	4.25	56 31	13.37	16	16.38	55 48	12.95	16	90.47	4 24	15.44	16	3.51	0 09
14.01	28	93.00	51 12	15.10	21	4.54	50 20	14.61	16	16.50	58 27	14.05	17	90.72	0 08	15.44	20	4.35	0 43
12.25	28	93.02	52 15	15.44	23	5.01	56 09	15.25	17	16.63	57 42	15.44	20	91.43	3 44	13.30	21	4.48	4 12
15.44	28	93.14	54 16	13.20	24	5.28	53 22	15.44	17	16.69	56 55	15.44	22	91.73	6 31	12.25	25	5.49	3 13
15.44	30	93.55	51 49	15.44	25	5.47	56 57	12.60	17	16.71	55 02	14.75	23	91.97	1 19	15.44	26	5.66	2 12
15.25	32	93.83	54 25	15.44	29	6.21	59 07	15.44	19	17.15	53 15	15.44	23	91.99	9 46	15.10	29	6.32	7 02
15.44	34	94.30	54 27	14.70	30	6.39	51 01	14.94?	21	17.56	56 23	14.84	23	92.04	8 42	14.48	30	6.57	0 26
15.10	36	94.71	53 09	15.44	30	6.56	53 29	14.75	22	17.82	58 29	15.44	23	92.06	6 23	14.89	31	6.76	0 27
15.25	37	94.94	54 32	15.44	31	6.66	55 36	13.83	23	17.99	54 24	15.10?	23	92.09	6 14	14.08	32	6.90	4 11
12.25	38	95.23	50 26	11.55	31	6.70	51 05	14.31	24	18.13	57 33	15.44	24	92.15	7 33	10.36*	32	6.95	5 33
15.44	40	95.61	50 52	15.10	32	6.89	58 32	15.44	25	18.46	58 46	12.43	24	92.16	2 19	15.44	33	7.14	7 53
14.61	40	95.76	55 40	14.19	32	7.00	59 57	14.12	30	19.41	52 09	13.55	26	92.58	3 28	13.76	34	7.41	5 10
13.30	40	95.78	50 24	15.44	33	7.19	56 11	12.78	30	19.52	51 17	14.39	27	92.93	6 40	12.88	35	7.49	7 18

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1) Magnitude very uncertain, extrapolated.

25 prec. + 63 sec. + 5′ 53″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+10'	Int. magn.	α	x	y+10'	Int. magn.	α	x	y+10'	Int. magn.	α	x	y+10'	Int. magn.	α	x	y+10'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.10	59 35	7.58	6 15	14.08	0 30	19.56	1 10	13.72	58 16	90.53	17 48	13.76	59 26	5.54	15 21	14.94	0 28	18.89	10 54
15.44	36	7.89	0 24	15.44	31	19.74	8 22	13.23	20	91.46	18 02	15.44	26	5.68	10 35	14.52	28	18.95	19 48
14.12	38	8.15	2 12	11.02	32	19.90	5 18	14.70	22	91.68	13 39	15.25	26	5.71	14 26	13.55	28	18.99	18 39
12.71	40	8.56	7 07	15.44	34	20.24	6 35	8.6 1)	23	91.94	17 31	10.68	28	6.10	17 20	14.94	30	19.36	18 09
14.84	40	8.63	2 30	13.83	37	21.08	7 34	15.44	28	93.13	15 29	15.44	28	6.15	14 42	15.00	32	19.94	15 30
14.48	42	8.98	4 00	14.19	41	21.84	9 46	12.43	29	93.34	18 04	11.38	29	6.33	13 49	12.08	33	20.01	17 40
15.44	49	10.67	0 59	14.48	42	22.02	2 41	15.44	30	93.51	18 44	15.25	30	6.45	17 21	15.44	33	20.11	11 21
15.44	50	10.77	3 16	14.08	43	22.21	2 43	14.31	34	94.48	16 44	15.44	31	6.66	13 17	14.39	34	20.28	18 20
15.10	50	10.81	1 17	13.41	43	22.21	8 56	13.79	35	94.61	19 30	13.20	31	6.66	13 35	14.01	36	20.73	12 24
13.76	51	11.10	8 13	12.43	43	22.34	8 58	13.37	37	95.08	11 29	14.08	33	7.22	10 04	15.44	37	20.93	10 57
15.44	53	11.51	5 08	13.23	44	22.39	5 12	15.10	39	95.39	17 50	15.10	34	7.35	11 53	15.44	38	21.26	16 00
15.44	54	11.79	4 35	15.44	46	22.91	5 32	15.44	40	95.65	17 46	13.83	34	7.42	19 20	14.75	40	21.55	13 23
13.65	55	11.81	5 40	13.76	57 42	83.13	16 00	15.44	43	96.27	18 17	15.00	35	7.50	15 36	15.44	41	21.84	13 11
14.75	55	11.97	4 29	15.25	44	83.55	18 51	15.44	44	96.47	19 34	14.39	35	7.64	11 10	14.08	42	22.09	16 22
15.00	57	12.35	8 34	15.44	44	83.61	12 38	12.74	46	96.94	19 43	13.83	36	7.88	16 11	15.44	44	22.41	16 38
15.44	58	12.50	8 31	15.10	44	83.70	14 03	14.27	47	97.22	13 13	15.44	38	8.20	14 00	14.70	46	22.82	17 34
14.12	58	12.57	1 35	15.44	45	83.73	11 01	15.44	48	97.34	18 52	15.44	38	8.21	14 19	11.03	46	22.94	13 53
15.25	59	12.68	1 27	15.25	46	83.94	14 33	15.10	48	97.50	11 38	14.70	39	8.34	11 20	14.70	57 42	83.07	23 26
14.84	59	12.85	8 51	14.19	46	84.07	16 40	15.44	49	97.59	14 40	12.60	39	8.35	13 42	13.37	42	83.08	21 02
13.76	0 0	13.00	0 39	13.90	51	85.10	11 15	14.52	50	97.84	18 02	14.61	39	8.41	11 52	14.75	42	83.09	22 21
15.25	0	13.07	5 21	15.25	52	85.39	18 46	14.70	52	98.27	17 30	15.44	41	8.76	15 26	15.25	42	83.21	23 56
15.25	2	13.38	8 42	14.70	52	85.42	14 40	12.78	54	98.59	14 54	13.13	43	9.28	16 29	12.95	42	83.25	21 43
13.83	2	13.49	6 34	15.44	54	85.71	17 21	15.25	54	98.62	10 47	11.90	43	9.32	15 50	14.61	44	83.52	26 11
15.44	3	13.63	1 07	15.44	54	85.76	15 58	15.44	54	98.75	16 22	15.44	46	9.92	13 13	15.10	46	84.04	24 42
14.94	4	13.76	6 08	15.44	54	85.80	15 43	15.44	56	99.05	17 22	15.44	46	9.95	11 44	8.9 1)	48	84.56	28 26
12.78	5	14.03	4 40	14.84?	55	85.93	17 54	12.60	56	99.25	15 39	14.48	47	10.22	16 47	15.44	50	84.96	24 59
14.01	5	14.14	7 12	14.19	55	86.00	15 22	15.44	57	99.27	17 33	14.12	57	12.29	17 12	13.48	51	85.18	27 46
12.08	6	14.19	8 56	15.10	55	86.01	15 51	15.44	57	99.45	11 09	14.94	58	12.51	11 02	14.31	52	85.26	27 27
13.83	7	14.45	7 47	13.90	57	86.34	11 10	15.25	58	99.54	11 20	14.75?	58	12.52	14 33	14.61	52	85.44	23 10
13.20	8	14.63	1 49	10.69	57	86.49	19 01	12.78	59	99.70	12 46	12.78	0 0	12.87	14 15	14.61	53	85.64	28 17
15.25	8	14.63	9 08	14.84	58	86.55	19 43	14.15	59	99.74	19 41	14.39	1	13.13	12 43	15.25	54	85.69	22 03
14.31	8	14.75	5 21	12.43	58	86.63	10 14	15.44	59 1	0.18	14 32	14.39	3	13.54	15 02	12.78	54	85.70	24 16
15.44	10	15.17	1 14	15.25	58 2	87.58	18 36	13.94	2	0.33	17 38	12.78	5	13.99	14 35	15.10	54	85.88	22 44
13.76	11	15.26	9 24	15.44	3	87.71	18 50	15.44	3	0.69	13 58	15.44	8	14.71	10 04	12.25	55	85.97	22 05
15.44	13	15.74	2 15	15.44	5	88.06	14 23	15.25	4	0.76	16 24	13.62	10	15.09	10 02	15.10	58	86.62	28 16
12.88	13	15.83	1 55	13.94	6	88.25	13 11	15.44	4	0.88	18 23	14.94	10	15.13	18 10	13.13	58	86.66	26 28
15.25	15	16.27	1 24	14.75	6	88.39	12 54	15.25	4	0.97	13 17	14.61	13	15.74	16 12	15.44	59	86.90	22 35
11.73	16	16.40	9 28	15.44	7	88.50	16 23	15.44	5	1.05	10 43	15.00	13	15.78	12 24	15.44	58 1	87.23	26 48
14.48	16	16.43	6 19	14.12	8	88.71	17 49	15.00	6	1.19	17 51	15.44	13	15.84	12 54	15.10	6	88.41	26 38
14.70	18	16.91	8 44	13.90	8	88.79	18 51	13.41	7	1.55	19 48	12.88	14	15.89	17 04	14.19	7	88.61	27 26
14.84	20	17.28	4 06	15.44	8	88.86	11 44	15.44	8	1.68	12 10	13.65	16	16.39	16 30	15.44	8	88.72	20 45
14.75	21	17.45	6 21	13.23	9	88.94	13 51	13.13	11	2.29	12 23	14.94	16	16.41	15 43	12.25	8	88.75	24 27
15.44	22	17.64	9 40	15.44	9	89.08	19 38	13.20	12	2.64	15 43	15.44	18	16.79	18 57	14.94	8	88.90	25 45
13.55	22	17.67	1 24	15.25	9	89.09	11 55	13.06	14	3.02	15 25	15.44	18	16.91	16 00	15.44	10	89.15	28 10
15.44	24	18.12	5 55	13.13	10	89.19	14 52	14.61	14	3.05	15 02	15.44	20	17.24	12 38	14.39	11	89.35	22 18
15.10	25	18.36	9 10	15.44	11	89.33	12 20	14.52	15	3.21	15 06	14.61	20	17.33	11 26	14.19	12	89.55	28 06
13.83	25	18.40	8 04	15.10	11	89.46	15 45	14.94	16	3.45	17 18	14.75	23	17.90	15 12	14.70	12	89.69	25 06
15.44	26	18.49	1 47	12.78	13	89.78	15 30	12.88	20	4.35	11 55	15.00	24	18.04	18 00	10.34	13	89.82	23 08
15.25	28	19.15	9 10	14.39	14	89.99	16 53	13.90	20	4.40	13 15	14.94?	24	18.06	16 11	12.78	14	90.04	26 49
13.83	29	19.32	2 23	15.44	14	90.14	13 09	15.25	24	5.27	16 21	15.44	25	18.26	17 43	15.44	16	90.52	22 07

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1) Magnitude very uncertain, extrapolated.

25 prec. + 63 sec. + 5′ 53″.

20^h — 21^h Area 65. + 30°

501—530				531—560				561—590				591—620				621—641			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.61	58 17	90.78	28 10	13.58	58 42	96.21	29 09	15.44	59 19	4.08	29 22	15.44	59 49	10.66	28 51	15.44	0 25	18.33	26 17
14.75	18	90.84	24 44	15.44	42	96.22	23 58	14.19	20	4.28	28 46	13.58	50	10.77	23 24	14.70	25	18.42	22 59
15.44	20	91.29	29 07	12.08	43	96.30	22 24	14.08	20	4.30	21 41	15.10	50	10.87	27 30	14.61	26	18.60	24 27
14.84	22	91.80	27 40	14.39	45	96.70	23 48	15.44	20	4.32	22 23	13.90	52	11.12	24 45	14.61	29	19.11	29 57
15.44	22	91.89	22 22	13.90	47	97.24	26 16	14.01	21	4.55	27 01	15.44	54	11.54	25 02	15.44	29	19.17	29 27
15.10	23	91.99	27 06	15.00	47	97.29	29 06	13.09	21	4.59	20 28	15.25	54	11.69	25 14	13.83	31	19.66	28 57
13.23	23	92.01	27 28	15.44	50	97.76	27 06	14.08	22	4.68	25 09	15.44	54	11.75	24 00	14.08	31	19.72	27 58
15.25	24	92.15	29 16	13.30	51	98.05	23 45	14.75	23	4.86	28 16	15.44	55	11.96	27 51	14.48	33	19.98	22 26
14.70	24	92.16	23 52	11.73	51	98.07	24 31	13.48	24	5.23	21 10	14.27	56	12.00	25 39	14.70	33	20.06	20 47
15.25	26	92.70	25 59	15.44	52	98.34	21 56	13.76	24	5.27	25 51	15.44	0 1	13.21	27 23	15.00	35	20.39	20 50
14.84	27	92.80	29 13	13.13	54	98.61	22 37	13.65	25	5.47	21 45	12.95	2	13.27	24 04	15.44	36	20.59	25 48
14.61	27	92.92	24 17	14.39	54	98.75	21 33	14.94	27	5.76	22 20	15.44	3	13.50	24 10	13.83	36	20.62	29 45
15.44	27	92.97	28 57	12.08	54	98.78	23 53	14.84	27	5.88	24 34	14.19	5	14.01	25 03	13.20	37	20.94	27 57
14.70	28	93.10	21 38	15.25	56	99.05	25 14	15.44	27	5.90	29 06	14.12	6	14.25	24 59	15.25	37	20.96	24 02
14.94?	29	93.32	29 31	14.31	59	99.74	26 12	15.25	28	6.05	27 09	12.08	7	14.45	28 52	14.75?	37	20.97	23 00
14.94	30	93.53	24 36	11.03	59 1	0.15	25 56	14.27	31	6.65	27 45	14.61	7	14.49	22 10	14.61	38	21.12	28 45
13.83	31	93.70	28 19	14.70	1	0.22	28 15	11.80	32	6.94	20 07	14.70	8	14.56	26 54	14.52	38	21.16	21 18
14.48	31	93.71	28 29	15.10	3	0.59	27 33	12.25	33	7.06	26 24	15.25	9	14.96	20 05	13.48	40	21.56	27 59
14.61	31	93.73	22 29	13.94	4	0.79	23 51	13.06	33	7.18	24 21	15.44	10	15.12	27 59	13.94	44	22.39	28 06
14.39	31	93.82	26 53	12.43	4	0.89	25 51	14.75	35	7.50	26 53	15.44	12	15.47	29 52	13.94	44	22.44	20 59
13.83	32	93.91	26 09	14.31	4	0.96	29 48	15.44	35	7.51	26 18	15.44	12	15.52	20 57	15.44	45	22.70	22 28
14.70	32	93.95	21 27	15.10	7	1.60	27 27	13.90	35	7.52	29 36	15.44	15	16.10	21 40				
15.44	32	93.98	29 33	15.44	9	1.86	27 13	13.94	36	7.71	24 49	14.94	15	16.24	20 00				
13.65	33	94.11	23 59	15.10	10	2.27	24 28	13.72	38	8.25	25 29	14.84	15	16.25	27 28				
13.30	34	94.44	27 17	15.44	11	2.42	28 00	14.39	39	8.36	24 05	14.39	17	16.51	28 16				
15.44	37	95.02	21 45	14.08	12	2.59	24 26	11.31	39	8.36	21 05	12.08	18	16.84	28 12				
15.25	41	95.84	24 00	14.01	12	2.61	20 41	14.52	39	8.49	26 58	13.90	20	17.33	28 47				
14.52	41	95.86	20 27	15.10	14	3.00	22 19	15.44	41	8.93	27 08	13.90	21	17.50	28 44				
14.39	41	95.90	29 08	15.10	18	3.95	26 36	14.70	42	9.06	27 50	13.48	23	17.90	27 37				
15.44	41	95.93	24 00	14.48	19	4.08	29 12	14.01	47	10.20	23 49	15.44	23	17.98	26 50				

25 prec. + 63 sec. + 5′ 54″.

21^h Area 66. Centre for 1900: 21^h 58^m + 30° 10′. + 29°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.26	56 5	75.02	45 02	15.08	56 13	76.85	49 16	14.12	56 19	78.13	46 39	15.97	56 33	81.02	44 46	14.49	56 45	83.69	42 10
14.83	5	75.05	49 38	15.97	14	76.91	40 34	13.63	20	78.33	46 26	13.71	33	81.22	43 27	14.93	46	83.94	41 51
14.44	8	75.77	48 48	14.58	14	76.97	43 31	15.08	24	79.09	40 55	15.08	34	81.32	43 52	15.97	47	84.12	42 54
14.35	9	75.83	49 28	15.78	14	76.97	41 26	15.19	25	79.43	46 59	13.60	35	81.61	40 43	15.97	49	84.56	49 28
15.97	9	75.98	42 30	15.63	14	77.04	40 58	14.73	26	79.55	46 48	14.12	36	81.68	48 51	14.98	50	84.80	41 52
15.97	10	76.05	42 49	15.08	15	77.19	41 52	14.00	28	80.09	49 13	11.96	37	81.93	45 48	14.73	51	84.95	44 25
14.98	10	76.18	40 39	15.97	15	77.31	44 47	15.24	29	80.19	49 13	15.52	38	82.29	41 31	15.97	51	85.10	47 19
15.97	11	76.43	44 57	14.58	18	77.89	42 44	11.79	29	80.28	48 21	15.78	40	82.55	44 33	15.24	52	85.20	48 18
12.46	12	76.57	42 17	14.00	19	77.98	45 31	14.68	30	80.51	46 25	15.24	43	83.24	44 07	15.63	53	85.54	41 12
14.44	13	76.82	43 31	14.83	19	78.10	44 27	15.97	31	80.71	41 45	15.24	43	83.34	47 43	12.12	54	85.62	46 34

25 prec. + 67 sec. + 7′ 10″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.93	56 54	85.72	45 29	14.98	57 46	96.93	48 48	14.73	58 43	9.35	41 43	15.78	59 32	19.92	42 48	12.80	0 23	31.09	46 46
12.80	55	85.88	41 35	12.97	48	97.41	41 29	14.58	45	9.70	41 42	15.08	34	20.31	49 09	13.63	24	31.26	44 10
15.08	55	85.98	45 26	12.29	50	97.72	43 08	14.58	45	9.71	44 50	15.46	34	20.35	47 13	15.97	26	31.68	42 21
14.49	56	86.21	40 13	13.44	53	98.41	41 02	15.46	45	9.84	41 10	14.58	34	20.36	43 11	14.44	28	32.04	40 12
15.78	57	86.39	49 50	15.19	53	98.53	49 58	7.13[1]	46	9.89	43 11	12.46	34	20.36	44 53	15.97	28	32.14	45 15
14.49	58	86.49	47 18	15.97	55	98.95	41 59	15.46	46	9.91	45 52	14.83	35	20.59	40 44	12.80	30	32.60	48 23
14.68	58	86.50	41 03	14.68	56	99.14	43 20	15.63	46	10.03	41 35	14.12	35	20.59	40 13	14.12	32	32.90	45 09
15.97	59	86.71	42 40	15.24	57	99.42	49 29	15.46	48	10.53	49 28	13.08	35	20.69	49 36	15.52	34	33.36	42 52
15.52	57 0	86.90	44 27	15.46	58	99.64	46 51	14.58	52	11.29	41 16	13.83	39	21.39	44 22	15.97	34	33.38	45 16
14.98	0	87.01	48 24	15.08	59	99.68	49 44	12.29	53	11.40	40 16	15.97	39	21.51	47 58	15.24	34	33.46	47 46
15.97	1	87.11	40 47	12.29	58 2	0.48	48 23	14.04	53	11.43	42 22	15.97	40	21.69	42 26	14.35	35	33.55	41 20
10.54	2	87.39	46 02	15.97	2	0.53	43 00	15.97	54	11.67	45 14	15.63	40	21.71	47 26	15.97	35	33.65	41 28
15.19	4	87.90	47 50	14.44	3	0.68	45 59	15.46	55	11.98	46 01	11.31	41	21.98	49 24	12.80	36	33.94	47 13
15.97	5	88.08	47 55	14.21	5	1.13	44 45	14.88	56	12.09	49 41	15.08	43	22.42	45 30	15.97	37	34.05	46 47
15.78	5	88.15	43 46	15.97	6	1.34	44 51	15.52	56	12.20	43 11	12.29	43	22.44	43 45	15.97	39	34.42	40 23
15.24	6	88.18	44 35	15.97	7	1.57	45 40	14.68	56	12.23	45 58	15.78	44	22.59	46 10	13.41	39	34.53	42 00
15.97	7	88.43	44 16	15.08	12	2.54	45 02	15.97	57	12.37	42 46	15.97	46	22.99	47 15	15.63	39	34.54	41 13
14.35	8	88.81	49 20	15.63	12	2.68	40 03	15.52	58	12.56	47 29	14.83	47	23.14	42 11	14.12	39	34.58	42 28
15.97	9	88.83	46 10	13.41	14	2.97	41 11	13.15	59 0	12.99	42 45	14.98	48	23.38	45 50	15.52	41	34.85	46 34
12.29	11	89.40	42 16	15.24	15	3.17	45 16	13.15	0	13.08	44 42	15.24	48	23.39	45 57	15.24	56 6	75.22	58 25
15.19	12	89.49	40 48	13.71	17	3.78	42 56	15.24	0	13.10	42 50	15.46	49	23.66	47 13	13.71	6	75.28	53 36
15.97	12	89.55	49 07	15.97	18	3.97	43 10	15.97	1	13.21	40 33	14.98	51	24.19	42 31	15.97	9	75.96	53 27
13.71	12	89.66	48 05	15.35	19	4.06	42 53	14.98	4	13.93	47 11	14.73	52	24.28	40 22	15.97	9	76.01	55 16
15.35	12	89.69	44 45	15.24	20	4.31	45 24	14.26	4	13.94	42 58	14.58	56	25.20	47 38	14.44	10	76.25	55 58
15.63	14	89.95	44 45	15.08	20	4.40	41 45	14.49	5	14.12	48 18	15.08	56	25.25	48 58	14.68	12	76.66	52 19
15.19	16	90.39	46 42	15.63	22	4.78	46 25	10.43	5	14.12	42 22	15.97	56	25.27	40 10	15.97	13	76.80	50 43
15.08	18	90.97	49 31	14.58	22	4.88	44 09	15.97	7	14.52	49 57	15.19	59	25.77	45 45	11.05	16	77.46	50 34
15.97	19	91.05	40 26	12.97	25	5.33	48 15	15.24	8	14.86	40 54	15.08	0 1	26.20	48 44	13.52	17	77.69	57 13
15.97	20	91.31	47 16	15.97	25	5.35	43 22	15.35	9	14.99	45 25	15.78	1	26.21	42 28	15.52	18	77.97	54 02
15.46	21	91.60	46 00	15.78	25	5.35	41 27	13.79	10	15.11	44 31	15.19	1	26.27	48 34	12.63	19	78.18	55 23
14.58	22	91.82	44 16	15.24	27	5.85	48 05	14.49	11	15.42	40 23	15.97	2	26.38	49 50	15.24	21	78.60	58 10
14.83	23	91.95	43 51	15.63	27	5.91	41 13	13.44	13	15.87	44 23	15.97	2	26.44	48 28	15.78	22	78.81	53 04
15.97	26	92.61	42 31	12.80	28	6.08	43 32	15.97	14	16.03	44 40	15.46	3	26.71	40 29	15.78	23	78.90	57 06
15.46	28	93.10	45 11	15.24	30	6.41	41 05	15.19	14	16.17	44 53	15.97	4	26.91	40 13	14.98	23	79.08	56 30
15.97	29	93.28	40 26	15.63	30	6.57	42 30	13.44	16	16.60	41 51	15.97	4	26.97	47 45	15.97	25	79.37	55 47
15.97	30	93.54	44 04	14.58	31	6.77	42 30	14.12	17	16.63	46 40	15.97	5	27.07	48 15	10.50	26	79.64	50 19
15.24	31	93.71	45 40	15.63	32	6.85	48 19	14.93	17	16.69	49 48	15.08	6	27.37	42 08	15.63	29	80.37	52 14
15.78	32	93.93	41 28	14.83	32	6.97	43 06	14.58	17	16.70	44 59	13.83	7	27.57	48 00	15.24	31	80.69	54 21
15.24	32	93.98	44 16	15.63	32	7.04	45 04	15.78	20	17.25	41 37	15.63	7	27.62	43 59	15.46	31	80.72	56 29
13.71	34	94.37	47 28	15.97	33	7.16	47 39	15.24	20	17.43	41 48	15.97	8	27.79	46 36	15.63	31	80.80	58 09
13.22	35	94.55	49 00	15.19	34	7.43	47 50	14.58	24	18.22	46 02	14.44	9	27.93	43 38	15.78	35	81.57	50 45
14.44	36	94.89	42 02	15.78	36	7.72	44 24	14.44	25	18.45	40 31	14.35	11	28.49	44 31	15.46	36	81.70	50 18
15.97	37	95.09	40 42	14.00	36	7.76	40 19	14.93	25	18.46	47 22	15.97	12	28.72	44 00	13.83	36	81.83	54 02
14.49	40	95.55	49 27	13.41	36	7.85	42 51	15.35	25	18.47	48 17	15.35	14	29.17	42 44	12.70	37	81.92	50 34
15.97	40	95.74	48 09	15.35	37	8.11	42 41	15.97	25	18.49	48 43	14.68	17	29.83	49 44	13.91	39	82.48	54 04
14.98	42	95.98	47 54	15.97	38	8.27	42 41	13.33	25	18.53	47 00	15.63	20	30.48	45 03	14.73	39	82.52	55 04
15.97	43	96.35	45 41	13.83	41	8.84	40 02	15.63?	26	18.67	44 04	14.49	22	30.73	45 47	14.88	40	82.62	50 00
15.19	43	96.39	45 08	15.19	41	9.00	45 41	13.44	27	18.83	45 25	15.97	22	30.92	48 46	15.97	40	82.65	54 03
12.29	45	96.68	41 59	15.78	42	9.03	45 30	15.97	29	19.22	42 50	15.97	23	30.94	47 07	15.63	41	82.88	55 03
14.93	45	96.77	47 45	13.63	42	9.05	49 52	13.60	30	19.51	44 35	14.98	23	30.98	40 32	15.46	42	83.05	52 13

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[1] From Harv. vis. = 7.01 (H.A. 54) and Photogr.-Harv. vis. = + 0.12. The latter because (Gött. Aktin. B p. 41) Photogr.-Harv. vis. = + 0.27 + 0.77 (Gött. — Potsd.) + 0.04 (Potsd. — 6.5), in which Potsd. = 7·41 Color W+ (Potsd. Publ. **17**), therefore Gött.—Potsd. = — 0.25 (Aktin. B p. 29).

25 prec. + 67 sec. + 7′ 12″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$ / $y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.71	56 44	83.47	55 45	13.63	57 44	96.57	58 31	14.68	58 54	11.60	54 25	12.97	59 58	25.67	51 41	14.68	56 12	76.70	7 48
15.97	45	83.82	55 19	13.79	44	96.64	51 05	14.44	56	12.10	51 39	13.41	59	25.75	52 48	15.97	14	77.08	7 50
14.04	49	84.68	58 45	15.63	45	96.84	55 01	14.58	57	12.26	51 40	12.63	0 0	25.91	55 51	15.24	16	77.45	7 44
12.80	50	84.89	58 50	13.91	46	97.06	53 04	15.97	59	12.80	51 13	14.44	0	26.07	55 10	15.97	16	77.46	0 28
15.19	51	85.06	51 28	12.90	50	97.74	52 10	14.21	59 0	12.93	50 18	13.33	2	26.48	55 05	14.58	19	78.17	9 12
15.63	51	85.11	58 35	15.08	50	97.84	56 33	14.21	0	13.00	58 06	15.35	3	26.75	52 38	12.80	20	78.28	9 26
15.35	52	85.17	51 59	13.26	53	98.43	50 02	14.73	2	13.51	53 46	15.08	3	26.75	56 53	14.83	20	78.32	0 45
14.68	54	85.60	57 21	11.56	54	98.80	55 49	12.46	4	13.86	57 50	15.97	4	26.86	53 04	15.63	24	79.31	1 41
15.97	54	85.62	51 14	15.78	55	98.86	52 48	14.83	5	14.00	54 30	15.46	4	26.88	52 30	15.52	26	79.59	9 08
15.08	54	85.68	55 16	12.63	57	99.25	54 34	14.53	6	14.26	50 31	15.97	5	27.08	56 21	15.08	26	79.66	3 23
15.08	54	85.79	59 24	15.97	57	99.35	59 53	15.97	7	14.60	55 57	13.26	6	27.37	56 16	15.08	27	79.78	4 41
15.97	55	86.01	51 48	15.97	59	99.81	58 15	12.12	10	15.16	54 31	15.97	8	27.78	51 51	14.04	27	79.81	7 31
15.46	58	86.57	52 16	12.80	58 0	99.95	57 37	14.21	12	15.70	51 50	14.73	12	28.61	55 58	15.63	28	80.08	7 25
14.73	57 0	86.90	58 55	15.08	0	0.07	56 01	12.63	13	15.92	56 49	13.71	12	28.62	56 28	15.24	28	80.16	7 51
14.44	0	86.99	51 34	14.58	1	0.27	55 41	12.12	14	16.04	52 01	15.19	13	28.83	51 36	13.83	29	80.28	9 24
12.46	0	87.07	54 36	12.29	2	0.54	54 41	14.98	14	16.12	57 32	15.97	13	28.89	58 36	15.97	33	81.12	3 43
15.63	5	88.01	51 09	15.78	4	0.89	55 11	14.35	16	16.49	57 06	14.35	13	28.92	59 31	15.97	33	81.22	3 50
15.63	5	88.06	50 00	14.12	8	1.74	58 57	12.80	17	16.59	55 00	15.35	14	28.98	50 52	14.26	35	81.60	5 56
12.97	6	88.24	54 24	15.46	9	1.99	52 18	14.73	19	17.03	54 24	15.52	15	29.26	50 52	15.24	36	81.74	8 38
13.60	6	88.31	57 13	15.63	10	2.20	56 46	14.49	20	17.37	52 17	15.63	17	29.62	53 49	15.52	39	82.50	1 35
13.52	8	88.63	51 59	15.19	13	2.78	51 54	15.63	22	17.75	52 54	15.35	19	30.08	58 32	14.49	40	82.74	6 23
15.97	8	88.67	51 02	14.83	13	2.87	55 54	12.97	23	17.92	54 36	12.12	21	30.51	59 29	14.00	41	82.91	6 49
14.68	8	88.71	52 36	15.52	17	3.59	57 13	12.97	24	18.29	58 25	15.78	21	30.60	52 46	14.98	46	84.06	9 11
15.78	8	88.84	54 58	15.35	18	3.83	57 40	15.19	27	18.89	53 36	15.08	23	31.07	55 34	15.69	46	84.08	0 04
15.35	13	89.77	54 52	15.24	20	4.22	59 35	14.93	30	19.43	52 39	15.19	25	31.43	57 59	15.97	49	84.58	6 37
14.58	15	90.21	59 42	14.00	20	4.43	52 13	11.96	30	19.50	50 06	13.08	26	31.52	57 24	13.26	50	84.83	7 13
15.35	16	90.39	56 33	13.33	22	4.67	54 50	15.24	31	19.66	57 20	15.97	27	31.82	59 41	15.78	50	85.92	7 20
15.08	16	90.56	52 18	13.44	22	4.76	54 49	14.73	32	20.03	50 16	14.93	28	32.09	55 12	15.19	55	85.97	8 21
12.63	17	90.58	57 12	12.46	23	4.93	56 13	15.19	33	20.05	54 06	15.24	30	32.52	53 23	15.97	56	86.14	6 52
15.97	19	91.14	56 56	14.12	23	4.99	50 20	15.24	33	20.20	54 09	15.35	30	32.54	55 27	12.97	56	86.17	1 47
15.08	21	91.55	53 38	15.97	24	5.21	53 16	14.26	34	20.27	51 11	13.71	31	32.65	58 12	11.14	57	86.37	5 21
15.97	21	91.58	51 00	13.71	27	5.91	52 24	15.24	34	20.34	56 35	14.12	33	33.08	51 25	13.52	59	86.89	0 55
12.29	22	91.77	58 00	15.35	28	6.15	54 22	14.93	36	20.72	56 47	13.26	34	33.26	51 34	15.97	57 2	87.35	1 53
11.36	23	92.07	53 04	15.35	29	6.26	55 38	15.97	38	21.32	56 24	15.97	35	33.58	55 11	14.26	4	87.86	1 49
15.97	24	92.19	51 12	14.83	30	6.56	55 28	15.08	40	21.62	50 08	15.97	36	33.78	55 25	15.08	8	88.68	0 12
10.02	26	92.65	50 14	15.08	32	6.86	59 34	14.58	44	22.55	58 51	15.08	36	33.88	54 57	15.19	10	89.20	7 40
14.26	26	92.66	57 47	15.97	34	7.33	55 58	15.97	45	22.69	52 29	15.97	37	34.07	56 23	15.97	11	89.44	4 33
14.68	27	92.86	50 25	14.12	34	7.44	55 16	14.49	46	22.93	58 24	15.78	40	34.66	55 10	15.97	12	89.68	1 50
15.97	31	93.63	59 45	15.52	36	7.79	54 14	12.63	46	22.98	52 17	14.44	40	34.75	58 16	15.08	16	90.43	1 20
15.97	32	93.89	50 09	15.63	36	7.80	53 49	13.63	48	23.35	58 03	14.26	41	34.82	50 28	15.08	16	90.54	6 34
15.46	32	93.93	54 17	15.78	39	8.45	54 13	15.97	48	23.49	57 19	14.83	41	34.95	58 38	15.08	17	90.62	4 33
15.46	33	94.17	53 59	15.97	40	8.72	59 16	14.58	49	23.56	53 37	15.97	56 5	75.05	2 22	15.24	17	90.70	1 06
15.24	36	94.77	50 51	15.52	42	9.14	57 23	14.93	49	23.60	56 43	14.78	5	75.06	9 50	15.97	18	90.81	8 31
15.08	36	94.77	55 44	15.97	44	9.45	59 10	15.08	49	23.69	55 10	15.24	5	75.08	7 31	15.97	18	90.92	5 27
15.08	37	94.97	57 40	15.78	44	9.61	52 32	15.24	49	23.71	55 35	14.58	6	75.40	3 43	15.97	18	91.02	6 43
15.78	41	95.98	53 21	15.78	46	9.94	58 35	15.46	51	24.02	51 59	12.12	7	75.48	9 54	15.46	20	91.37	9 08
14.68	42	96.13	54 57	12.12	48	10.35	56 06	14.49	54	24.76	54 12	15.97	9	75.99	2 20	15.19	20	91.37	6 23
12.29	42	96.14	50 59	15.08	49	10.68	50 39	13.63	54	24.77	58 27	13.44	11	76.35	6 30	15.08	21	91.64	3 53
15.78	43	96.35	53 17	15.78	49	10.70	53 08	15.78	56	25.12	56 11	14.73	11	76.37	0 59	12.12	23	91.91	6 03
15.97	44	96.54	59 32	14.68	53	11.43	55 13	14.93	57	25.26	55 43	14.35	12	76.67	5 53	12.12	23	91.97	7 28

25 prec. + 67 sec + 7′ 12″.

551—600				601—650				651—700				701—750				751—800			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.46	57 25	92.42	4 06	15.52	58 46	9.86	4 09	15.97	59 42	21.96	1 46	13.41	56 11	76.47	10 12	12.70	57 7	88.65	10 16
14.49	26	92.70	2 56	14.49	46	9.87	3 35	15.24	42	22.01	9 48	15.97	12	76.71	15 19	14.49	8	88.79	11 15
15.35	31	93.81	6 14	15.46	48	10.46	0 04	15.46	42	22.11	4 00	14.73	12	76.72	13 08	14.00	9	88.93	18 33
15.63	32	93.83	5 00	14.49	48	10.48	7 30	15.97	43	22.24	7 51	14.49	15	77.34	13 44	15.78	10	89.20	19 26
12.70	32	93.91	0 10	15.08	49	10.64	5 13	14.98	43	22.32	1 05	15.97	16	77.65	17 26	14.58	12	89.73	12 39
14.58	33	94.24	0 16	15.52	50	10.70	7 48	12.97	45	22.72	4 44	15.97	18	77.92	18 17	14.68	14	90.01	13 08
15.35	34	94.47	7 58	14.68	50	10.71	0 16	14.98	46	22.96	2 28	14.21	18	78.01	13 39	15.08	15	90.21	14 35
15.35	37	95.03	8 43	14.93	50	10.76	4 34	15.78	48	23.34	2 02	15.78	22	78.85	15 04	14.98	16	90.49	14 53
15.35	39	95.41	2 32	14.49	54	11.57	0 44	14.93	48	23.45	8 19	15.97	23	79.04	19 01	12.80	16	90.52	19 12
15.08	39	95.46	3 54	11.29	54	11.76	2 46	15.97	49	23.61	8 34	15.97	23	79.08	16 17	14.93	19	91.09	18 25
14.12	40	95.61	1 44	14.73	55	11.95	7 54	15.46	51	23.93	3 18	15.08	25	79.51	14 03	15.97	21	91.63	13 58
15.08	41	95.98	1 55	15.46	56	12.07	1 33	14.63	52	24.16	9 28	15.97	25	79.54	14 50	15.97	21	91.67	12 17
15.97	42	96.09	1 24	15.35	57	12.34	5 11	15.08	52	24.25	5 42	15.97	26	79.79	14 10	14.00	22	91.78	18 57
15.97	44	96.44	8 25	15.35	58	12.56	8 55	12.12	53	24.53	3 36	15.19	28	80.22	19 02	14.93	23	92.01	18 54
12.29	44	96.45	4 05	15.08	58	12.64	3 50	15.97	54	24.77	9 59	15.35	29	80.27	15 37	14.83	24	92.21	19 17
13.33	45	96.66	1 51	15.24	59	12.73	8 58	15.19	55	24.83	9 00	15.08	30	80.47	19 15	11.56	24	92.31	17 02
14.26	46	96.89	7 09	14.26	59	12.85	5 43	14.68	57	25.24	5 05	15.24	31	80.69	11 30	14.44	25	92.34	13 47
12.63	46	96.90	1 09	13.56	59 0	12.98	0 36	15.63	58	25.52	8 09	14.98	31	80.71	11 00	14.93	25	92.36	18 02
12.12	47	97.16	2 47	14.26	2	13.38	5 51	10.25	58	25.58	9 13	8.9 1)	32	80.98	16 31	13.63	27	92.86	13 23
15.97	50	97.79	8 04	13.44	3	13.53	5 44	14.58	0 1	26.20	0 10	14.83	34	81.32	10 46	14.12	28	93.01	16 58
14.78	54	98.61	0 22	14.40	4	13.81	9 34	15.63	2	26.36	2 55	13.08	36	81.97	17 19	14.83	29	93.23	13 44
15.97	56	99.19	6 27	15.97	6	14.32	0 59	14.49	3	26.62	3 22	12.90	38	82.37	19 13	15.19	29	93.34	16 22
14.04	57	99.35	5 08	14.98	9	14.89	5 52	13.79	4	26.72	2 27	15.24	40	82.77	12 37	14.26	30	93.53	12 35
15.97	58 2	0.36	1 12	15.97	10	15.03	2 31	14.44	6	27.25	3 14	15.97	41	83.01	13 24	15.78	30	93.54	12 07
14.68	3	0.59	8 15	15.97	15	16.18	6 03	14.21	10	28.02	8 30	12.29	43	83.37	19 10	12.80:	35	94.56	13 23
15.08	3	0.72	1 13	14.73	17	16.64	6 38	13.08	10	28.15	2 51	14.00	45	83.76	17 07	15.97	36	94.71	14 48
15.24	5	1.01	2 44	15.08	18	16.86	5 55	15.08	10	28.23	2 28	14.98	45	83.80	19 00	14.35	37	94.93	18 06
14.98	5	1.07	4 52	15.24	18	16.92	7 42	14.98	11	28.25	4 39	15.41	46	83.92	10 06	15.46	39	95.36	17 19
15.78	8	1.62	2 05	14.93	18	16.93	5 02	15.63	16	29.33	8 28	14.58	47	84.16	19 55	15.97	40	95.57	15 30
15.97	8	1.73	8 19	13.83	18	16.96	3 26	15.08	17	29.62	6 38	11.47	48	84.34	17 16	15.78	40	95.70	10 59
14.58	12	2.49	5 39	15.97	19	17.09	9 13	15.97	17	29.71	4 03	14.98	50	84.88	19 34	14.12	40	95.77	11 43
15.19	12	2.69	2 51	14.83	20	17.27	3 17	15.97	19	30.14	1 54	15.97	50	84.92	18 45	12.63	42	96.01	10 32
15.52	15	3.22	8 04	15.97	20	17.38	8 28	15.24	20	30.34	7 41	14.49	52	85.21	17 59	14.58	43	96.42	10 48
11.79	17	3.59	3 56	14.26	21	17.46	7 40	15.97	21	30.49	6 30	15.24	54	85.70	19 52	15.97	45	96.79	15 28
14.44	19	4.09	9 28	15.97	21	17.50	1 42	14.26	23	31.00	4 20	14.49	54	85.75	12 01	14.12	46	97.02	13 10
9.68*	21	4.58	8 06	15.63	23	17.89	2 02	14.12	23	31.02	8 48	15.52	55	86.03	15 00	15.35	47	97.09	11 18
15.35	22	4.74	6 42	14.00	23	17.92	2 27	15.97	24	31.06	2 49	15.63	58	86.68	16 48	14.68	47	97.10	15 07
14.35	23	4.89	0 47	14.00	23	17.99	7 58	15.97	24	31.21	9 29	15.63	57 1	87.32	19 32	15.78	47	97.23	15 51
15.19	23	4.99	6 14	15.08	26	18.50	4 37	15.97	25	31.31	6 21	12.97	1	87.34	16 13	15.63	49	97.52	15 18
15.24	23	5.06	6 24	13.71	29	19.26	9 17	14.73	26	31.52	6 33	15.19	2	87.42	16 03	15.63	49	97.69	19 06
13.91	24	5.28	8 07	15.19	30	19.45	9 32	15.78	32	32.81	4 32	15.19?	2	87.46	19 02	14.68	49	97.70	19 13
15.63	25	5.40	5 07	15.78	33	20.16	6 53	15.97	32	32.85	2 13	15.24	2	87.53	13 44	14.98	50	97.86	10 48
15.97	29	6.26	7 58	14.93	34	20.24	2 06	14.53	32	32.96	0 36	15.78	4	87.86	19 52	14.73	50	97.89	11 04
14.63	32	6.86	9 54	14.98	34	20.43	9 19	14.73	56 5	75.13	14 06	15.46	4	87.88	18 25	14.98	52	98.28	14 56
15.97	34	7.29	9 59	14.58	36	20.69	0 05	14.68	5	75.18	15 38	14.93	5	88.03	11 53	15.78	53	98.45	15 58
12.63	37	8.11	4 44	14.98	37	21.03	2 43	15.97	6	75.36	15 47	14.04	5	88.15	14 50	14.49	53	98.56	17 02
12.46	39	8.42	7 53	15.97	37	21.06	9 44	13.15	6	75.41	16 35	14.00	5	88.15	16 01	15.52	54	98.59	13 59
15.97	40	8.59	8 29	12.63	37	21.07	2 58	14.98	8	75.82	17 58	14.93	6	88.28	13 07	15.52	54	98.61	16 37
15.97	40	8.67	3 24	14.53	40	21.64	0 23	15.63	8	75.90	10 58	14.73	6	88.37	18 15	15.08	55	98.91	10 35
14.83	44	9.50	2 07	15.19?	41	21.84	3 02	10.65	11	76.42	17 07	15.97	7	88.50	15 13	14.26	56	99.05	19 24

1) Magnitude uncertain, extrapolated.

25 prec. + 67 sec. + 7′ 12″.

801—850				851—900				901—950				951—1000				1001—1050			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.78	57 56	99.14	18 22	15.24	58 49	10.49	18 10	13.04	59 42	22.00	11 43	15.97	0 33	33.00	10 59	15.97	56 39	82.49	26 32
15.19	56	99.19	13 19	14.49	50	10.70	13 30	14.98	44	22.38	11 45	15.24	33	33.12	19 06	14.68	39	82.53	28 13
15.69	59	99.81	19 46	14.58	51	10.94	14 36	14.58	45	22.66	16 07	15.35	35	33.53	14 57	12.80	43	83.46	26 47
15.97	58 1	0.30	17 21	15.57	51	10.97	10 28	14.93	47	23.20	17 57	13.60	36	33.60	16 36	15.97	44	83.54	29 12
14.12	2	0.52	14 58	14.12	51	11.00	19 17	15.19	48	23.36	12 52	15.08	36	33.63	17 10	15.52	46	83.97	20 56
14.26	3	0.56	11 59	15.97	54	11.57	17 45	15.35	48	23.40	17 43	15.24	36	33.70	14 18	15.24	46	83.98	20 36
13.83	3	0.74	12 42	15.08	55	11.98	16 07	13.79	48	23.40	13 09	15.97	37	33.99	16 56	14.44	46	84.03	21 39
14.26	4	0.80	15 45	15.08	57	12.36	17 15	12.97	49	23.56	16 57	10.94	38	34.02	10 48	15.97	46	84.14	20 57
12.63	4	0.81	14 26	15.24	58	12.54	11 11	15.52	50	23.65	13 06	14.88	38	34.03	10 08	15.97	47	84.24	21 07
14.58	5	1.00	17 15	14.58	59 1	13.21	10 36	12.80	51	23.93	12 15	15.97	38	34.14	16 11	14.49	47	84.33	25 37
14.83	5	1.02	13 10	14.58	2	13.31	14 37	13.83	51	24.00	10 38	15.78	39	34.24	10 49	15.97	48	84.40	26 50
13.71	7	1.51	17 28	13.71	4	13.75	12 46	14.35	54	24.52	17 44	14.78	39	34.42	10 16	15.97	49	84.68	29 54
15.19	8	1.80	10 24	13.15	4	13.80	11 08	14.58	55	24.77	14 18	15.24	41	34.74	17 10	13.79	50	84.86	28 26
12.63	8	1.83	19 07	14.98	5	14.04	19 10	15.97	55	24.87	19 46	13.33	42	34.88	14 33	15.08	51	85.04	22 22
15.19	10	2.10	17 41	15.46	5	14.08	16 45	15.78	56	25.08	16 12	13.33	56 4	75.03	22 39	15.97	51	85.05	27 05
14.78	10	2.15	10 07	15.63	6	14.24	19 59	13.87	59	25.70	10 14	15.97	6	75.47	22 42	14.04	51	85.08	25 55
15.97	11	2.31	11 56	14.68	8	14.77	10 20	14.04	0 2	26.24	14 45	15.30	7	75.69	29 31	15.63	51	85.22	26 06
15.97	11	2.46	19 33	14.93	9	14.89	13 53	14.21	2	26.32	15 42	13.71	8	75.87	28 10	15.97	52	85.38	22 31
15.13	12	2.62	10 14	14.21	11	15.38	10 06	15.97?	2	26.32	19 12	14.04	9	76.01	25 44	15.52	52	85.38	26 20
14.00	13	2.72	17 55	15.24	13	15.86	13 10	13.79	2	26.35	19 05	15.19	9	76.16	28 42	15.97	54	85.75	27 02
15.08	14	3.11	14 48	15.24	14	15.99	16 15	15.08	3	26.55	16 44	15.97	11	76.42	23 10	11.18	54	85.84	23 59
15.78	15	3.20	16 04	13.52	14	16.09	18 21	15.97	3	26.66	15 37	15.52	11	76.51	22 46	15.69	57	86.32	29 56
14.35	17	3.70	12 18	13.75	15	16.29	19 26	14.98	4	26.70	13 19	15.78	11	76.59	23 33	14.21	57	86.48	27 33
15.97	17	3.72	15 45	11.27	16	16.37	10 16	14.35	6	27.19	15 01	15.46	12	76.72	20 37	15.97	57 1	87.21	28 19
15.97	19	4.18	16 30	15.97	18	16.95	13 45	14.00	6	27.24	13 03	15.97	14	77.20	24 09	15.97	1	87.38	24 04
15.46	19	4.18	14 13	15.78	19	17.15	10 37	15.97	6	27.32	13 58	15.13	15	77.36	29 30	14.35	3	87.75	20 29
8.5 1)	22	4.65	17 20	11.53	22	17.67	17 43	13.41	8	27.58	10 51	14.93	15	77.42	27 11	14.98	4	87.85	24 02
15.34	22	4.69	11 25	15.97	24	18.08	17 46	15.46	8	27.67	16 41	14.04	15	77.42	20 38	15.19	6	88.26	28 26
15.19	25	5.35	15 30	15.46	25	18.43	16 26	13.41	9	27.89	10 40	15.78	16	77.66	20 14	15.08	6	88.40	29 55
15.34	25	5.37	16 57	13.33	27	18.88	16 34	15.08	12	28.49	15 07	14.68	17	77.78	24 35	15.24	7	88.67	26 25
15.78	26	5.52	10 27	12.90	28	18.99	13 01	14.21	13	28.62	12 12	14.49	17	77.89	24 37	15.97	9	89.00	24 42
14.44	26	5.72	12 22	15.97	28	19.01	18 05	15.08	14	28.84	12 42	15.63	19	78.27	24 53	15.97	9	89.02	27 04
12.97	27	5.91	15 55	15.52	29	19.15	11 06	14.83	15	29.10	18 18	13.44	21	78.58	21 37	15.97	10	89.17	20 06
14.58	27	5.91	19 28	15.63	29	19.29	11 04	15.24	16	29.34	16 47	14.44	21	78.70	21 47	15.08	10	89.23	24 11
13.15	28	6.02	17 30	11.21	29	19.29	19 22	14.58	17	29.64	17 58	14.12	25	79.48	29 17	15.24	11	89.37	21 31
10.25*	29	6.29	12 30	15.19	29	19.30	19 07	14.35	18	29.76	16 18	15.97	25	79.52	26 31	14.44	12	89.54	25 07
13.44	29	6.32	17 51	15.24	30	19.50	16 16	15.19	19	30.07	15 33	15.52	25	79.60	22 02	15.97	12	89.55	25 34
15.97	31	6.64	14 05	13.63	31	19.55	10 08	9.91	21	30.50	17 40	15.97	26	79.68	22 05	13.83	12	89.64	21 37
14.49	33	7.03	17 45	15.63	31	19.64	17 24	15.97	21	30.51	11 26	12.46	29	80.31	20 36	13.71	12	89.64	27 34
15.69	33	7.12	10 18	15.08	31	19.67	12 35	14.93	23	30.86	18 28	14.73	29	80.42	24 33	15.63	17	90.64	29 53
14.68	33	7.18	11 40	15.52	32	19.80	13 34	15.97	24	31.15	12 27	11.79	30	80.54	27 40	15.52	17	90.66	29 52
13.83	35	7.52	12 41	15.52	32	19.84	10 50	11.79	25	31.27	13 14	15.97	32	81.09	28 49	12.80	17	90.76	28 15
14.12	37	7.98	14 39	14.44	32	19.94	11 25	15.35	26	31.43	13 18	15.97	33	81.18	25 59	15.63	18	90.98	21 24
15.08	38	8.18	18 30	13.91	33	20.15	17 51	15.78	28	31.99	10 56	15.78	35	81.58	25 05	15.35	19	91.15	21 52
15.97	39	8.35	15 56	15.52	37	20.90	12 19	15.08	29	32.10	19 24	11.14	35	81.59	24 05	15.97	20	91.32	27 28
15.19	40	8.53	19 17	15.46	37	21.04	12 27	15.08	29	32.22	19 05	14.26	35	81.68	22 11	14.93	20	91.46	22 17
15.78	42	9.18	10 16	14.58	38	21.07	19 14	15.52	29	32.24	10 59	15.78	35	81.74	21 38	15.97	20	91.49	28 03
14.26	43	9.34	15 38	11.08	38	21.10	17 40	14.12	30	32.28	15 34	14.93	36	81.80	28 41	14.98	21	91.65	26 22
14.00	44	9.51	17 22	15.63	39	21.37	15 54	14.98	30	32.43	14 43	15.19	38	82.34	26 29	15.97	22	91.76	26 00
15.52	44	9.57	19 00	15.97	41	21.74	17 06	14.73	32	32.90	16 25	15.35	39	82.45	25 49	15.63	24	92.30	20 58

25 prec. + 67 sec. + 7′ 12″.

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1) Magnitude uncertain, extrapolated.

1051—1100				1101—1150				1151—1200				1201—1250				1251—1300			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.44	57 25	92.39	24 26	15.19	58 20	4.25	27 57	15.63	59 27	18.80	29 22	15.46	0 12	28.37	21 45	15.03	56 31	80.90	30 22
11.79	31	93.78	24 40	14.21	22	4.74	25 30	14.58	29	19.13	28 23	15.63	13	28.59	29 17	15.78	31	80.93	39 00
15.19	33	94.18	29 59	15.97	25	5.41	26 36	14.49	29	19.20	21 17	15.97	15	29.14	28 40	12.46	33	81.19	37 37
15.97	35	94.59	23 51	14.93	26	5.57	25 28	14.93	30	19.37	22 38	15.24	16	29.29	28 56	15.97	34	81.39	32 06
13.71	35	94.59	28 13	14.68	28	5.98	20 56	9.4[1]	30	19.45	24 25	13.79	16	29.33	23 14	14.17	34	81.44	30 00
15.97	35	94.68	24 59	14.73	28	6.11	21 27	11.96	30	19.50	27 29	14.73	17	29.43	27 53	15.46	35	81.70	37 08
14.04	35	94.68	21 23	14.12	29	6.18	24 25	15.97	34	20.16	29 34	15.97	20	30.14	24 04	15.78	37	82.10	36 04
12.97	37	95.13	21 19	12.63	29	6.20	29 07	15.97	34	20.24	20 24	15.97	21	30.49	25 05	13.60	37	82.17	34 45
15.97	38	95.29	26 35	14.26	31	6.75	27 45	14.88	35	20.39	20 14	15.97	22	30.68	24 36	15.97	37	82.21	37 50
14.93	39	95.40	23 34	14.12	33	7.05	22 11	13.04	35	20.42	20 00	14.58	23	30.78	22 16	15.08	38	82.39	39 20
15.63	39	95.45	27 31	14.26	33	7.06	21 24	14.44	35	20.49	24 02	12.73	23	30.91	26 07	15.46	39	82.59	36 38
15.97	39	95.55	23 47	13.71	33	7.10	27 41	15.19	35	20.53	22 34	14.35	24	31.03	25 33	14.58	39	82.66	33 01
14.93	42	96.14	21 21	15.63	34	7.42	20 09	14.63	36	20.63	20 22	14.12	24	31.04	26 42	14.68	40	82.86	36 56
15.97	44	96.53	29 26	14.49	36	7.68	21 50	15.08	37	20.97	28 23	14.49	25	31.23	23 17	15.97	40	82.87	36 42
14.93	44	96.65	29 19	15.19	36	7.69	20 25	14.58	38	21.10	25 34	15.78	25	31.27	21 41	14.83	41	82.96	37 41
14.98	46	96.88	29 24	15.97	36	7.87	20 54	15.63	39	21.30	25 35	14.12	27	31.72	26 32	12.46	41	82.99	35 45
15.30	46	96.91	29 54	15.97	39	8.35	21 49	15.97	40	21.47	27 10	15.97	28	31.90	28 53	15.19	41	83.00	39 17
15.97	46	96.97	27 02	15.46	40	8.57	22 18	15.97	40	21.59	25 47	15.78	30	32.31	27 19	15.97	41	83.05	33 06
14.12	46	97.09	26 25	13.91	41	8.93	28 41	15.19	42	22.08	27 17	15.19	31	32.54	24 20	14.98	43	83.42	36 47
15.78	48	97.51	21 04	15.97	43	9.32	20 08	14.73	43	22.29	23 18	13.63	31	32.60	23 06	14.49	45	83.88	30 46
15.97	51	97.99	24 23	15.24	44	9.47	20 32	13.67	43	22.29	29 54	15.52	31	32.65	29 34	13.83	45	83.88	31 51
15.63	51	98.10	29 21	15.08	45	9.63	29 01	13.71	47	23.12	24 35	15.52	32	32.67	21 13	13.33	46	83.97	38 59
12.97	51	98.14	25 10	14.44	45	9.77	28 43	15.78	50	23.71	28 13	14.68	32	32.87	27 25	14.58	46	84.11	34 15
15.97	52	98.27	23 06	14.00	47	10.14	22 29	13.41	50	23.80	21 25	14.12	33	32.92	25 42	14.68	48	84.47	35 30
13.60	54	98.73	26 38	15.24	47	10.15	27 41	15.52	53	24.40	20 37	14.26	33	32.99	27 21	15.97	49	84.77	37 01
13.96	55	98.89	29 54	14.68	51	10.91	24 20	15.97	54	24.56	25 51	15.46	35	33.42	26 20	14.83	50	84.92	39 55
15.97	57	99.25	29 01	14.00	51	11.01	21 15	12.63	55	24.73	26 08	15.97	35	33.51	22 17	15.08	51	85.18	34 03
15.34	57	99.33	21 25	14.00	53	11.39	26 25	14.98	56	25.03	28 25	15.97	38	33.99	22 42	11.96	52	85.33	37 30
15.78	58	99.55	21 03	15.97	53	11.50	25 57	15.97	57	25.31	22 17	14.26	38	34.03	21 15	15.24	52	85.38	39 22
15.97	58 0	99.97	26 33	14.58	53	11.51	27 27	14.26	59	25.61	27 44	15.35	38	34.07	27 53	15.08	52	85.41	34 54
12.12	1	0.19	22 02	15.08	55	11.77	20 26	14.12	0 0	25.84	25 34	14.73	38	34.15	23 54	13.83	52	85.46	33 17
14.98	1	0.31	23 09	14.83	55	11.79	21 54	14.12	0	25.94	26 52	15.35	41	34.64	23 19	13.79	53	85.58	34 31
14.73	2	0.34	25 14	15.24	55	11.85	24 31	15.78	1	26.16	22 26	15.78	42	34.95	28 33	15.97	53	85.66	33 54
15.24	3	0.55	25 14	15.52	59 1	13.09	23 52	15.97	2	26.21	25 26	11.38	56 6	75.38	37 51	15.19	54	85.70	32 37
14.98	4	0.84	20 57	11.79	1	13.09	26 11	15.97	2	26.36	22 29	15.78	6	75.49	38 23	15.19	54	85.89	34 27
11.34	4	0.85	25 59	14.58	4	13.84	29 03	24.04	3	26.54	24 11	14.68	6	75.51	39 38	15.97	55	86.06	38 24
14.44	4	0.90	24 46	15.63	4	13.85	26 23	13.83	3	26.62	20 44	15.97	13	76.95	30 30	14.21	55	86.11	32 15
12.80	6	1.36	21 34	13.91	5	14.09	20 00	14.21	4	26.77	20 14	15.63	13	76.99	34 44	14.98	57 3	87.79	37 06
15.19	7	1.42	29 04	15.78	6	14.12	21 43	14.58	4	26.79	24 32	13.37	15	77.36	30 04	15.97	5	88.18	32 56
15.24	8	1.68	28 54	15.52	6	14.26	21 26	14.93	5	26.86	28 07	15.52	15	77.47	30 12	15.19	8	88.92	37 29
15.08	9	1.94	22 48	15.24	10	15.04	27 29	13.71	5	26.98	20 47	15.97	17	77.86	32 26	15.63	12	89.57	38 13
15.97	10	2.22	26 42	15.97	13	15.79	28 09	15.19	6	27.08	28 00	11.79	20	78.42	31 56	14.49	12	89.58	39 50
11.36	12	2.63	22 41	14.12	16	16.39	20 46	15.52	6	27.26	29 55	14.12	21	78.79	34 23	14.35	14	90.01	39 11
15.97	14	3.02	22 57	13.26	18	16.80	29 44	14.49	7	27.38	23 48	15.97	23	79.08	30 58	15.24	15	90.29	39 02
15.97	14	3.05	23 50	15.08	19	17.04	25 13	11.79	7	27.41	24 31	14.58	24	79.29	35 48	15.78	16	90.45	39 19
15.24	16	3.39	27 54	12.12	19	17.04	27 48	10.83	7	27.45	21 40	14.98	27	80.08	33 25	13.79	17	90.65	34 29
15.41	17	3.61	20 16	13.79	19	17.07	27 26	15.63	8	27.54	29 12	15.97	28	80.27	39 30	15.63	17	90.81	37 51
15.52	18	3.79	24 14	15.19	21	17.37	25 05	14.21	9	27.80	27 31	13.33	29	80.51	36 42	14.26	18	90.88	32 43
14.44	18	3.92	28 40	15.97	25	18.38	25 31	15.97	9	27.81	24 29	15.97	30	80.70	31 23	14.44	18	90.88	31 03
13.33	19	4.02	24 27	15.19	27	18.70	23 45	14.98	11	28.34	22 13	12.80	30	80.70	30 50	14.58	18	90.88	39 53

[1] Magnitude uncertain, extrapolated.

25 prec. + 67 sec. + 7′ 12″.

1301—1340				1341—1380				1381—1420				1421—1460				1461—1496			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.52	57 18	90.89	34 51	15.08	58 13	2.70	36 49	15.97	58 51	10.90	33 39	15.63	59 23	17.77	33 34	15.46	0 2	26.32	38 37
14.98	18	90.96	33 47	14.73	14	3.08	30 52	8.7 1)	53	11.32	30 43	15.63	24	18.18	32 13	14.44	6	27.07	36 51
13.33	19	91.13	38 07	15.97	16	3.51	38 44	14.58	53	11.46	35 39	12.97	26	18.47	38 57	15.97	6	27.20	33 25
13.91	26	92.66	38 08	14.58	16	3.53	35 26	14.83	55	11.86	37 34	15.97	27	18.75	34 29	14.93	7	27.34	37 19
15.24	26	92.79	39 39	13.79	18	3.89	35 17	14.98	57	12.26	35 32	13.44	28	18.88	38 40	14.35	7	27.42	36 30
14.98	27	92.83	37 12	15.24	19	4.12	31 24	15.63	58	12.41	36 00	15.30	29	19.10	30 04	15.52	8	27.46	35 51
15.24	28	93.14	32 49	15.63	19	4.15	31 03	14.35	58	12.43	34 43	14.12	30	19.39	30 59	15.08	8	27.64	34 37
15.46	30	93.58	35 26	14.73	20	4.38	35 09	15.97	59	12.70	36 02	14.35	30	19.48	36 39	15.35	9	27.77	37 52
14.58	30	93.60	36 29	15.52	21	4.48	32 09	14.68	59 0	12.94	34 51	15.19	32	19.76	31 53	14.44	10	27.94	35 19
14.58	31	93.82	35 09	15.63	21	4.55	37 28	15.52	1	13.16	37 51	15.63	36	20.64	32 53	15.19	10	27.95	38 20
11.39	33	94.29	31 28	15.97	22	4.69	35 09	15.97	2	13.35	36 12	13.41	37	20.96	34 22	15.46	10	28.07	36 22
14.73	34	94.35	34 03	15.97	23	4.91	37 28	15.97	3	13.49	34 42	15.24	39	21.27	33 06	14.21	12	28.52	35 32
14.73	34	94.38	32 59	15.35	24	5.06	32 02	15.24	3	13.62	39 26	15.19	40	21.46	32 29	13.79	13	28.60	34 36
11.96	37	95.02	31 30	15.78	25	5.30	38 36	15.63	5	13.95	32 07	13.41	40	21.53	34 24	15.08	15	29.02	31 45
14.73	37	95.15	34 37	14.04	26	5.68	33 37	14.49	5	14.08	39 03	15.35	40	21.56	32 13	14.44	17	29.50	34 56
15.19	38	95.26	36 31	15.52	27	5.83	37 30	13.52	6	14.11	38 11	15.97	41	21.81	38 13	14.46	19	29.87	35 00
15.63	38	95.34	32 47	15.97	28	6.11	33 25	15.46	6	14.25	30 19	14.21	42	21.98	36 00	14.00	22	30.52	31 49
15.97	41	95.83	30 56	15.97	28	6.11	35 56	14.68	6	14.30	32 22	13.71	42	22.01	30 51	14.44	22	30.53	34 54
14.35	41	95.91	35 12	9.77	29	6.30	39 48	14.00	7	14.39	31 50	11.79	43	22.21	31 59	15.63	22	30.63	38 58
15.97	44	96.52	31 13	15.97	30	6.48	31 31	15.97	7	14.48	35 45	14.73	44	22.36	39 34	15.97	22	30.64	34 21
15.97	47	97.13	32 48	15.97	30	6.53	33 43	15.97	9	14.81	35 00	14.58	45	22.70	37 31	13.33	25	31.13	34 32
15.97	49	97.66	36 12	14.98	32	6.87	39 16	14.12	9	14.83	38 30	13.83	46	22.87	36 55	15.24	25	31.18	32 21
15.97	49	97.69	38 39	15.97	32	6.94	30 13	14.00	10	15.04	35 47	13.22	47	22.96	38 23	15.08	26	31.45	34 24
15.97	51	98.00	37 46	13.26	32	6.99	33 05	13.44	11	15.26	31 15	14.93	47	22.99	33 53	15.97	26	31.53	39 25
14.93	52	98.26	37 53	12.80	34	7.38	33 03	14.98	11	15.38	37 43	15.78	48	23.15	32 25	12.80	29	31.97	34 59
14.44	56	99.23	31 11	15.97	35	7.52	35 25	15.19	12	15.48	37 15	15.24	48	23.32	37 11	15.52	29	32.16	36 20
14.49	58	99.56	32 20	14.58	35	7.63	37 58	15.97	12	15.53	37 34	15.24	49	23.42	34 19	14.12	30	32.23	35 32
13.33	58	99.58	38 47	14.12	36	7.74	32 22	14.58	13	15.72	30 17	15.78	49	23.45	32 52	14.49	30	32.32	35 20
15.19	58	99.66	35 44	13.79	37	8.01	38 02	15.08	14	15.88	33 32	13.41	49	23.47	37 10	15.97	31	32.55	32 21
15.08	58	99.67	31 55	14.98	38	8.11	33 58	15.35	14	15.99	30 45	15.08	51	23.83	32 49	15.78	32	32.61	37 51
14.93	59	99.73	35 35	14.49	40	8.57	32 02	14.93	15	16.07	38 31	10.51	51	23.91	32 05	11.29	33	32.92	35 21
14.12	58 0	99.98	38 29	13.41	41	8.93	37 53	14.73	15	16.10	31 07	15.08	51	23.95	32 23	14.44	34	33.12	36 49
15.97	1	0.24	37 43	14.17	42	9.01	30 18	14.98	16	16.44	31 42	15.97	56	24.98	37 38	12.46	34	33.18	38 33
14.26	3	0.61	34 01	13.63	43	9.34	35 59	14.21	17	16.54	33 04	14.21	58	25.29	32 19	15.97	36	33.63	39 11
13.63	3	0.75	31 10	15.24	45	9.59	30 07	14.21	19	16.97	31 58	10.49	59	25.59	39 24	13.60	37	33.72	38 19
12.80	5	1.11	39 32	15.08	47	10.07	39 34	14.78	19	17.06	30 20	15.08	0 0	25.72	32 26	14.83	37	33.80	39 16
15.63	6	1.20	32 17	15.24	47	10.21	32 44	15.97	20	17.17	32 02	15.63	0	25.76	37 54				
13.83	6	1.32	38 23	15.46	48	10.30	39 19	15.24	20	17.31	39 12	13.79	0	25.81	33 00				
14.44	7	1.56	37 26	15.52	50	10.68	31 37	14.68	20	17.33	31 25	10.54	0	25.84	32 05				
15.97	9	2.01	30 28	14.04	50	10.68	38 11	14.98	21	17.54	39 59	15.24	1	25.94	39 29				

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1) Magnitude uncertain, extrapolated.

25 prec. + 67 sec. + 7′ 13″.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$ $y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.86	58 41	69.80	44 20	13.69	0 46	96.88	42 32	12.86	58 50	71.74	59 14	12.18	1 1	0.29	58 45	15.01	59 0	74.12	8 51
14.44	41	69.83	48 41	13.28	47	97.17	42 36	13.37	50	71.82	52 12	14.59	2	0.37	57 00	15.20	1	74.25	4 17
14.44	42	70.00	45 27	15.20	48	97.36	42 50	14.28	51	72.05	50 24	13.98	8	1.80	54 03	14.08	8	75.67	8 09
13.51	42	70.00	43 30	15.20	51	98.01	47 56	13.60	54	72.79	57 59	14.49	10	2.25	53 09	15.20	10	76.13	9 01
14.08	42	70.03	42 55	13.46	52	98.27	49 57	14.33	58	73.49	52 05	14.23	12	2.59	50 00	14.75	10	76.21	2 14
14.08	42	70.10	43 03	13.15	57	99.27	42 04	14.86	59 4	74.85	57 14	15.20	21	4.62	55 03	15.01	26	79.70	5 09
15.20	46	70.83	43 22	15.20	1 2	0.46	47 12	10.65	6	75.26	50 24	14.70	22	4.71	56 30	15.20	30	80.57	2 53
14.75	51	71.94	48 38	10.97	4	0.95	41 20	14.44	7	75.54	56 58	13.03	25	5.51	54 05	12.74	34	81.46	1 02
11.85	53	72.44	43 53	14.86	5	1.02	47 56	14.23	11	76.34	50 50	14.44	26	5.52	53 53	11.69	40	82.72	9 10
15.01	54	72.61	40 36	15.20	5	1.11	47 19	13.28	12	76.69	52 25	14.86	30	6.61	51 04	15.20	42	83.03	4 50
14.70	54	72.63	48 08	14.59	6	1.28	41 00	15.20	17	77.77	57 00	13.83	32	6.99	51 22	15.20	42	83.15	5 38
13.24	56	73.13	43 24	11.39	9	1.99	41 33	13.83	18	77.80	51 19	10.97	34	7.40	57 25	14.70	45	83.84	8 07
13.51	58	73.41	41 53	13.93	16	3.45	40 02	14.70	18	77.93	51 11	14.44	35	7.59	54 50	13.51	46	84.08	7 29
15.20	59 1	74.25	49 02	14.86	24	5.32	43 56	14.44	20	78.32	58 28	13.93	35	7.68	56 53	14.08	47	84.22	0 31
15.20	2	74.41	46 37	14.08	28	6.12	47 42	15.20	25	79.44	57 08	14.44	37	8.07	56 49	15.01	47	84.27	7 18
10.67	2	74.47	49 11	14.59	33	7.10	49 31	13.46	30	80.41	52 35	11.69	38	8.27	59 56	15.20	50	84.92	4 00
14.70	4	74.91	46 17	14.18	33	7.23	43 41	15.20	32	80.92	52 21	15.20	39	8.40	57 21	15.20	55	85.99	2 27
15.20	9	76.01	41 19	15.20	34	7.41	47 23	15.20	33	81.10	57 31	14.75	44	9.55	52 17	14.86	56	86.14	6 08
13.83	14	76.93	40 45	14.70	35	7.56	49 10	15.20	34	81.40	52 29	14.65	44	9.61	50 16	15.20	57	86.42	3 40
14.44	14	77.05	43 17	15.20	36	7.92	48 11	14.08	36	81.90	58 29	14.18	45	9.78	56 42	15.20	58	86.51	9 45
15.20	16	77.53	45 41	12.74	40	8.70	47 11	11.39	37	82.00	58 05	15.20	2 1	13.14	52 17	10.74	58	86.52	2 44
13.37	18	77.85	49 02	14.44	43	9.29	40 24	15.20	40	82.76	50 36	13.37	1	13.26	57 13	15.20	0 0	87.07	8 52
13.93	20	78.36	48 55	14.59	46	9.90	46 45	13.83	41	82.94	53 54	10.72	1	13.28	55 25	11.11	0	87.12	4 24
15.20	31	80.61	48 01	15.20	46	9.92	48 42	14.86	41	82.95	53 30	15.01	2	13.50	52 25	15.20	4	87.78	1 39
15.20	31	80.62	49 29	13.60	49	10.71	41 02	12.82	43	83.22	53 58	14.75	4	13.88	53 53	14.33	5	88.13	7 50
13.98	34	81.35	45 26	14.49	50	10.91	48 26	15.20	45	83.71	52 31	14.70	9	14.99	50 42	15.20	7	88.63	2 32
15.20	38	82.27	48 56	15.20	57	12.46	44 16	14.86	52	85.22	57 51	13.24	11	15.42	58 15	14.08	12	89.69	1 55
14.49	40	82.54	47 12	12.74	2 14	16.10	40 36	12.54	52	85.26	56 25	15.20	13	15.84	52 43	14.49	13	89.77	5 41
14.75	41	82.78	41 11	14.75	20	17.39	40 49	13.98	54	85.79	58 59	14.23	15	16.29	54 00	15.20	14	90.00	2 12
13.83	41	82.80	40 05	15.20	21	17.51	42 27	13.69	55	85.86	50 45	13.46	18	16.79	57 00	15.01	19	91.18	0 23
14.59	46	84.02	41 37	14.44	25	18.39	40 21	15.20	56	86.10	56 22	13.07	24	18.28	56 44	15.20	20	91.36	9 43
11.39	47	84.13	45 57	15.20	27	18.83	48 59	13.60	0 5	88.15	53 43	14.70	26	18.55	53 56	14.18	21	91.49	8 28
12.54	55	85.82	48 15	15.20	36	20.77	41 56	15.01	5	88.15	55 42	15.20	28	18.99	56 18	14.23	25	92.35	9 17
15.20	57	86.26	46 33	13.37	36	20.92	49 05	10.97	10	89.18	50 57	13.93	41	21.84	55 07	14.75	33	94.25	4 56
14.08	58	86.44	47 26	13.83	37	21.08	47 15	14.86	11	89.48	54 36	13.98	43	22.25	51 55	15.20	35	94.55	0 11
14.75	0 5	87.99	45 13	14.18	39	21.42	41 35	15.20	25	92.38	58 02	14.49	44	22.56	57 16	15.20	35	94.55	8 39
14.70	8	88.68	43 12	13.93	44	22.63	44 44	13.93	27	92.76	52 53	13.93	48	23.49	51 37	12.66	35	94.58	5 33
13.98	9	88.88	49 56	14.08	49	23.65	41 53	13.37	32	93.97	57 40	14.23	50	23.78	56 38	15.20	35	94.62	1 27
14.86	14	89.94	49 31	13.93	50	23.78	40 29	13.74	35	94.62	54 26	12.62	59	25.79	52 00	15.01	41	95.90	3 29
13.74	14	90.04	43 25	14.23	51	24.18	47 18	13.98	36	94.83	53 22	8.52	59	25.80	53 59	12.74	53	98.46	1 52
14.49	16	90.42	40 01	14.44	53	24.58	47 46	13.28	37	95.11	51 14	13.46	3 4	26.94	58 43	14.08	55	98.93	8 29
15.20	18	90.90	40 28	14.18	54	24.77	46 14	15.01	38	95.15	56 16	14.23	6	27.25	58 46	14.23	55	98.93	1 44
13.37	21	91.57	49 02	11.85	55	25.01	43 32	14.33	39	95.54	56 10	14.33	8	27.78	57 22	14.08	1 1	0.16	5 45
15.20	23	92.04	46 43	13.46	3 0	25.96	47 05	13.28	40	95.56	55 08	14.59	58 37	69.13	6 21	14.49	2	0.34	3 24
10.67	27	92.86	45 53	14.23	1	26.26	46 10	14.70	42	96.15	50 30	13.60	38	69.29	8 58	10.75	15	3.17	7 50
11.69	28	93.07	48 26	15.20	1	26.32	46 34	15.20	47	97.18	59 48	10.92	40	69.68	9 40	14.49	26	5.62	8 18
13.24	43	96.41	43 13	13.15	1	26.36	48 35	13.07	52	98.25	54 02	14.18	50	71.86	1 22	15.20	26	5.72	6 08
15.20	44	96.54	47 14	15.20	10	28.33	48 32	13.74	56	99.24	55 06	13.51	58	73.52	8 30	11.69	27	5.87	9 30
15.20	44	96.56	45 08	15.20	58 39	69.48	50 26	15.20	58	99.58	50 34	11.69	58	73.69	3 56	13.93	40	8.60	6 22
14.18	45	96.70	43 35	14.86	46	71.01	58 05	15.20	59	99.68	54 05	12.54	59 0	74.05	5 49	12.86	40	8.60	3 17

25 prec. + 72 sec. + 8′ 5″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
7.78*	1 42	9.10	4 47	14.49	59 39	82.54	11 29	14.44	2 21	17.58	17 31	15.20	0 5	88.06	26 44	13.74	2 54	24.64	26 23
14.86	44	9.60	5 38	15.01	41	82.93	18 39	15.20	23	17.93	11 19	14.23	6	88.43	21 26	14.33	57	25.20	29 00
14.33	53	11.38	8 06	15.20	42	83.21	12 13	13.98	26	18.64	13 37	15.20	9	88.95	26 52	9.66	3 3	26.43	23 23
15.20	53	11.39	0 52	15.20	46	83.97	10 57	14.18	33	20.05	14 05	14.49	9	89.06	28 50	14.86	4	26.75	24 14
15.20	59	12.78	2 27	14.44	52	85.28	17 22	15.20	35	20.45	11 07	12.54	15	90.24	26 14	15.20	4	26.81	26 01
8.81	59	12.81	8 10	15.20	52	85.28	11 06	15.20	37	20.95	16 06	13.15	15	90.36	25 01	12.18	7	27.47	25 45
15.20	2 5	14.04	7 01	13.46	52	85.30	18 04	13.46	49	23.50	12 35	10.67	18	91.00	20 28	13.65	14	28.87	29 31
15.20	6	14.25	5 56	14.59	54	85.83	11 37	15.20	50	23.64	14 41	13.24	23	92.01	26 04	14.49	58 36	69.01	34 25
14.44	10	15.15	0 23	15.20	57	86.37	16 19	15.20	54	24.52	15 09	13.03	29	93.32	23 36	12.66	38	69.50	38 57
10.97	16	16.41	0 05	14.75	0 0	87.14	14 47	9.21	3 3	26.48	11 07	15.20	31	93.67	25 55	13.24	39	69.68	39 10
15.20	16	16.48	1 20	14.18	4	87.87	18 20	14.18	5	27.07	14 39	13.03	32	94.00	25 35	14.75	40	69.96	37 49
14.86	20	17.27	0 42	13.24	9	89.05	12 58	11.85	6	27.25	16 59	15.20	33	94.19	21 38	13.28	46	71.06	33 29
15.20	21	17.57	5 57	14.18	10	89.14	14 07	14.59	8	27.60	14 08	15.20	33	94.24	22 58	13.51	47	71.29	36 01
13.51	21	17.61	5 39	13.83	19	91.17	17 48	11.54	9	27.93	16 31	14.49	37	95.11	23 28	14.59	47	71.34	31 30
15.20	24	18.26	1 57	13.28	19	91.20	15 44	14.44	11	28.25	13 14	12.54	43	96.42	23 01	8.52	52	72.39	33 03
15.20	27	18.83	7 35	15.20	21	91.55	19 55	14.59	11	28.30	16 32	13.83	44	96.44	25 41	14.18	56	73.36	30 43
14.23	27	18.87	8 35	12.54	26	92.60	15 47	10.97	11	28.33	10 49	14.44	45	96.78	28 30	13.24	59 0	74.23	32 45
12.86	32	19.94	5 06	10.97	28	93.04	16 24	14.86	11	28.37	11 01	13.51	45	96.78	25 52	13.37	3	74.89	36 29
15.20	37	20.91	7 53	14.70	29	93.34	18 01	14.86	13	28.82	12 49	15.20	1 0	0.06	26 37	13.51	7	75.74	33 04
14.18	37	21.06	3 24	13.93	30	93.44	13 59	14.86	58 38	69.46	22 50	14.44	7	1.52	22 05	10.65	8	75.94	38 06
14.23	42	21.96	1 06	15.20	31	93.81	10 32	13.93	39	69.60	29 26	12.54	13	2.73	24 01	14.18	10	76.24	36 19
14.33	49	23.61	9 06	15.20	40	95.64	18 04	15.20	39	69.69	25 55	13.37	18	3.81	22 17	13.93	11	76.64	33 57
15.20	51	23.95	9 55	14.33	46	96.94	16 14	15.20	40	69.84	27 09	15.20	19	4.09	22 50	11.69	15	77.47	33 24
12.01	52	24.29	4 36	15.01	47	97.10	10 00	13.46	46	71.22	28 57	13.55	21	4.44	29 56	12.18	20	78.58	37 11
14.23	53	24.35	7 17	15.20	48	97.33	18 16	13.93	50	72.01	21 36	10.97	21	4.53	24 27	15.20	30	80.61	39 08
14.23	3 1	26.19	5 24	13.74	48	97.44	14 28	15.20	52	72.40	29 23	13.37	25	5.40	24 54	14.23	31	80.78	33 37
13.15	3	26.67	0 40	13.83	50	97.80	13 20	13.93	52	72.52	27 41	15.01	37	7.89	27 52	13.60	35	81.63	38 17
15.01	4	26.76	8 40	15.20	51	98.13	15 24	15.20	59 0	74.03	27 29	11.54	39	8.39	28 47	14.49	37	82.17	31 03
10.60	5	27.01	1 21	15.20	56	99.10	15 15	15.20	2	74.48	28 00	14.08	39	8.51	29 09	13.98	41	82.97	30 54
13.51	7	27.52	4 31	8.98*	57	99.34	11 01	14.08	3	74.68	26 55	13.93	42	9.03	26 24	14.75	45	83.87	39 34
13.93	8	27.64	2 14	12.01	57	99.34	19 01	15.20	4	74.95	28 44	15.20	43	9.30	29 01	14.08	46	84.05	38 28
15.20	8	27.71	2 48	15.01	1 1	0.13	19 02	14.38	4	75.10	20 02	15.01	45	9.62	25 52	14.18	48	84.50	33 25
13.98	58 39	69.47	12 11	15.20	13	2.76	12 03	14.86	9	76.11	23 31	9.19	46	9.87	28 17	14.75	49	84.72	33 04
12.94	47	71.33	12 47	15.20	17	3.71	13 38	14.49	11	76.60	24 18	13.60	54	11.55	20 56	13.83	49	84.76	39 08
13.98	53	72.66	17 01	15.20	21	4.49	16 10	14.33	12	76.73	29 21	10.26	57	12.28	22 57	15.20	56	86.30	36 52
14.49	56	73.25	18 27	15.20	22	4.80	15 51	12.94	18	77.98	28 53	12.47	58	12.53	25 21	13.07	0 2	87.53	36 24
13.07	59 0	74.06	15 40	14.86	24	5.28	14 08	15.20	19	78.17	21 09	12.47	2 0	12.95	24 02	15.20	6	88.33	36 22
13.37	2	74.62	16 22	12.47	26	5.57	12 55	13.51	19	78.19	27 04	14.33	6	14.27	20 28	13.51	8	88.82	35 01
13.51	4	74.90	15 07	12.62	28	5.95	16 03	14.65	20	78.54	29 38	12.86	11	15.26	28 45	13.51	12	89.66	38 58
15.01	7	75.61	18 40	14.33	33	7.07	18 02	14.44	21	78.64	20 14	14.86	23	17.92	21 47	15.20	13	89.83	33 37
10.97	10	76.31	18 08	15.20	44	9.55	11 48	14.23	23	79.09	20 04	13.51	29	19.19	21 37	14.86	17	90.78	32 48
13.74	12	76.77	12 38	14.70	45	9.64	18 51	15.20	25	79.59	24 42	14.28	33	19.95	20 16	14.44	20	91.34	31 04
12.36	16	77.60	16 13	14.44	46	9.85	11 48	14.18	36	81.81	28 02	15.20	34	20.16	24 23	10.13*	27	92.93	32 32
14.75	18	77.99	18 22	15.20	50	10.77	11 50	9.70	38	82.30	24 08	15.20	34	20.17	28 20	15.20	28	93.09	38 21
14.23	21	78.69	13 25	15.01	55	11.89	10 57	14.70	40	82.79	21 01	14.18	38	21.05	24 29	15.20	33	94.16	30 45
14.18	29	80.31	10 49	12.18	2 1	13.21	18 36	12.36	49	84.74	22 56	13.07	40	21.64	20 04	15.01	39	95.50	30 42
15.20	31	80.69	15 22	14.23	6	14.16	11 37	13.83	50	84.92	21 16	15.01	42	22.08	28 41	10.47	41	95.82	32 00
15.20	31	80.83	19 03	14.23	10	15.14	12 20	13.74	55	86.05	26 23	12.18	44	22.48	26 50	13.28	42	96.08	34 49
13.51	34	81.35	18 25	15.20	13	15.87	11 34	15.20	59	86.76	22 38	15.01	46	22.91	25 05	13.15	42	96.17	30 37
14.75	35	81.57	12 08	14.08	21	17.45	16 17	12.18	0 3	87.72	21 52	15.20	50	23.81	27 46	14.33	55	99.01	36 20

25 prec. + 72 sec. + 8′ 5″.

Area 67.

501—510				511—520				521—530				531—540				541—548			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.20	1 1	0.27	32 51	14.59	1 40	8.55	33 13	15.01	2 2	13.37	32 50	12.18	2 19	17.05	38 13	10.97	2 57	25.10	38 33
14.18	4	0.93	32 55	13.93	40	8.60	34 20	14.49	3	13.46	37 00	15.20	24	17.98	38 48	14.59	59	25.68	31 35
14.18	5	1.00	37 35	14.86	44	9.58	37 27	15.20	3	13.65	34 11	14.08	28	18.85	31 05	14.70	3 7	27.34	35 38
14.44	6	1.36	32 52	15.20	49	10.57	31 25	13.93	6	14.18	33 59	14.23	30	19.32	36 11	12.29	9	27.69	34 20
15.20	15	3.15	39 18	15.20	50	10.77	34 20	14.75	9	14.76	30 12	13.83	30	19.35	36 39	15.20	10	28.00	39 22
15.01	21	4.42	30 20	9.94*	50	10.87	33 18	14.70	14	15.91	32 14	15.01	36	20.74	37 09	14.18	11	28.12	37 18
15.20	28	6.00	32 36	14.44	54	11.55	36 03	12.36	14	15.99	31 31	15.20	42	21.85	32 04	14.18	12	28.36	39 08
11.69	32	6.90	31 06	11.54	54	11.71	39 10	15.01	15	16.20	30 37	13.37	42	21.91	36 51	13.98	15	28.98	32 33
11.25	36	7.73	37 46	15.20	59	12.66	39 22	12.98	16	16.37	30 06	15.20	53	24.39	36 32				
13.74	37	7.89	32 24	15.20	2 2	13.36	34 59	15.20	17	16.55	34 50	14.86	55	24.82	36 46				

25 prec. + 72 sec. + 8′ 5″.

Area 68. Centre for 1900: $0^{h}\ 11^{m} + 15^{\circ}\ 20'$.

$+ 14^{\circ}, + 15^{\circ}$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+80'$	Int. magn.	α	x	$y+80'$	Int. magn.	α	x	$y+80'$	Int. magn.	α	x	$y+80'$ $y+20'$	Int. magn.	α	x	$y+20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.20	8 41	66.45	45 12	15.68	11 5	1.15	49 46	14.91	13 51	41.34	41 37	14.20	11 58	14.01	55 04	15.68	9 54	84.10	4 36
13.96	41	66.49	40 10	14.91?	8	1.89	49 23	13.05	58	43.11	43 31	15.49	12 6	16.04	50 02	14.36	55	84.25	8 08
14.06	54	69.53	40 06	13.27	10	2.48	48 24	14.85	14 4	44.54	46 18	13.82	27	20.97	58 38	13.63	56	84.52	0 29
15.68	59	70.75	45 45	14.36	11	2.61	40 18	13.27	8 52	69.10	53 09	11.43	29	21.56	55 02	15.68	10 5	86.68	8 19
15.68	9 2	71.59	43 41	15.68	19	4.61	49 40	12.22	54	69.56	52 32	14.06	31	22.06	57 01	15.16	7	87.27	0 21
15.22	10	73.36	40 10	15.49	25	6.03	40 42	14.36	57	70.26	58 51	14.36	44	25.16	51 46	15.34	7	87.28	0 09
15.68	12	73.82	47 13	14.91	40	9.62	40 51	14.06	9 0	70.92	53 20	11.11	47	25.84	52 44	13.72	8	87.40	5 43
13.58	19	75.55	43 01	13.82	43	10.48	40 30	12.76	11	73.73	51 24	14.62	50	26.66	56 00	15.16	11	88.07	2 04
14.85	21	75.95	49 40	14.36	44	10.55	46 42	12.63	16	74.98	51 20	15.16	53	27.32	53 28	13.63	28	92.35	7 26
14.91?	28	77.86	48 54	15.22	50	12.20	43 54	15.49	18	75.33	58 07	15.68	55	27.68	53 34	14.31	33	93.42	2 37
11.43	43	81.28	48 44	14.62	12 2	14.96	40 02	13.72	22	76.34	57 58	14.46	57	28.15	52 39	14.73	37	94.38	5 42
14.06	50	83.17	40 42	15.16	9	16.71	47 17	14.57	32	78.70	53 35	12.42	13 0	28.93	51 00	14.85	48	97.14	2 34
13.82	10 0	85.57	42 40	15.34	12	17.35	46 51	15.22	10 5	86.63	51 49	14.10	5	30.20	58 02	13.63	54	98.59	2 35
14.85	10	87.79	40 22	14.46?	17	18.54	48 27	14.85?	9	87.68	57 26	15.68	7	30.73	51 59	13.14	55	98.72	3 30
15.68	13	88.56	47 44	13.82	24	20.41	45 46	14.85?	14	88.98	57 54	15.22	9	31.13	53 43	14.91	56	98.94	6 37
13.05	23	91.06	45 58	15.22	30	21.76	47 38	13.36	17	89.59	52 49	11.63	14	32.39	55 01	14.85	11 2	0.54	0 23
13.82	23	91.15	43 27	13.40	44	25.25	48 48	14.20	24	91.27	50 19	14.06	31	36.52	55 47	11.22	7	1.66	4 10
14.46	25	91.57	40 06	13.49	45	25.37	46 20	14.85	27	91.91	50 03	14.62	36	37.71	55 18	13.18	9	2.11	9 15
14.91	27	91.96	43 47	10.82	48	26.13	46 25	13.72	29	92.52	50 25	13.05	45	39.94	57 16	14.73	11	2.65	6 40
10.89	27	92.13	43 57	14.36	53	27.34	41 23	14.91?	30	92.85	53 52	14.36	54	42.02	54 07	14.31	28	6.68	9 38
13.82	33	93.43	41 50	12.63	55	27.92	47 45	13.86	35	93.85	59 10	12.42	57	42.83	52 51	13.96	28	6.88	5 53
14.85	34	93.61	40 52	13.58	59	28.87	44 08	12.02	11 5	1.25	51 05	11.43	14 5	44.80	55 54	15.49	45	10.86	5 26
13.27	37	94.37	41 23	11.43	13 0	29.06	42 13	15.68	15	3.59	51 11	14.46	8 50	68.65	5 59	14.10	46	11.01	2 43
14.57	37	94.52	48 33	15.68?	7	30.81	48 48	15.68	16	3.88	50 10	13.96	51	68.96	5 51	15.16	12 1	14.68	8 25
15.68	41	95.40	48 49	15.68	22	34.41	45 53	14.20	21	5.10	51 30	15.49	9 2	71.50	5 22	15.03	30	21.83	5 59
15.68	43	95.86	40 12	13.82	39	38.34	41 08	14.31	24	5.84	56 44	11.82	14	74.47	4 22	12.84	33	22.45	3 38
14.06	44	96.10	47 23	15.03	48	40.63	45 58	15.49	29	7.10	50 13	15.68	23	76.53	8 37	13.82	54	27.56	7 50
12.22	44	96.19	48 47	15.68	50	41.09	46 21	15.16	34	8.25	57 09	12.84	24	76.91	4 30	15.16	56	27.99	3 02
13.86	55	98.90	42 43	14.85	51	41.25	46 04	15.49	40	9.63	54 05	11.82	42	81.25	8 57	9.65	57	28.31	6 41
15.68	57	99.24	42 06	12.02	51	41.32	43 35	15.68	44	10.61	51 30	14.73	47	82.43	1 55	15.34	13 6	30.34	7 12

25 prec. + 77 sec. + 8′ 21″.

Area 68.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.10	13 8	30.80	9 30	14.62	11 49	11.75	13 08	15.49?	10 54	98.44	27 04	15.68	9 18	75.50	38 18	12.22	13 38	38.09	34 12
13.58	13	32.01	8 57	15.68	49	11.85	18 36	15.16	56	99.02	25 48	14.01	32	78.72	39 27	12.42	42	39.09	37 56
15.34	29	35.93	7 49	15.68	57	13.69	18 17	15.03	11 3	0.81	25 16	14.57	41	80.92	33 52	13.36	47	40.22	39 45
14.91	31	36.48	1 13	14.31	12 0	14.38	13 30	15.16	4	0.94	22 20	14.91	57	84.90	31 26	14.91	14 3	44.03	35 53
14.36	41	38.93	7 40	12.63	5	15.61	13 15	13.14	6	1.38	26 14	14.36	58	85.01	30 36	13.27	8 40	66.31	41 03
15.22	42	39.16	1 32	14.06	10	17.01	14 20	13.58	14	3.44	26 17	14.73	10 7	87.22	33 15	12.22	42	66.86	47 47
15.49	47	40.23	6 39	13.27	18	18.92	19 59	15.68	18	4.34	27 42	14.62	16	89.46	33 24	15.68	44	67.29	47 12
15.68	50	40.96	4 51	15.49	18	18.93	10 17	14.57	22	5.24	22 43	13.45	19	90.11	39 32	15.34?	49	68.58	43 11
11.01	51	41.28	2 02	14.06	42	24.59	16 55	15.68	27	6.60	26 41	15.68	28	92.39	38 20	15.68	53	69.47	49 07
15.34?	56	42.50	5 23	15.16	47	25.71	17 41	11.43	29	7.09	20 42	14.73?	32	93.17	39 37	12.22	57	70.39	46 21
15.22	57	42.67	3 41	14.36	49	26.42	15 00	15.68	31	7.59	27 02	13.36	38	94.66	37 10	15.22?	9 4	72.04	48 02
15.03	59	43.27	0 03	15.68	54	27.58	12 32	13.82	37	8.84	22 08	12.97	41	95.39	38 25	15.68	5	72.39	40 39
13.27	14 4	44.40	6 01	15.68	58	28.34	18 37	15.22	46	10.99	27 52	15.49	42	95.62	39 09	14.10	7	72.75	44 59
13.86	8 44	67.16	12 34	15.49	59	28.65	17 09	14.10	56	13.40	29 39	15.10	47	96.79	30 06	15.68?	11	73.72	49 12
15.16	49	68.33	17 38	15.34	13 5	30.24	17 39	12.42	12 0	14.38	25 18	15.49	50	97.49	38 13	13.86	16	74.94	43 07
10.96	59	70.77	18 17	12.63	8	31.00	15 58	15.34	2	15.06	29 41	11.22	51	97.73	38 49	15.22	21	76.20	43 19
14.85	59	70.82	19 59	14.46?	12	31.83	19 57	15.68	4	15.40	26 08	15.03	57	99.17	33 52	11.63	35	79.43	41 17
15.34?	9 1	71.25	18 31	10.30	12	31.96	18 11	13.27	4	15.45	26 42	15.68	11 0	0.00	39 04	15.22?	45	82.04	47 17
15.03	18	75.28	13 28	15.34	15	32.67	12 39	15.68	13	17.48	29 52	14.91	2	0.50	39 32	15.68	48	82.64	40 44
15.34	18	75.31	13 12	15.49	23	34.56	15 15	14.20	23	19.97	20 50	15.34	2	0.52	38 36	10.63	50	83.07	49 02
14.91	29	77.95	12 17	13.58	26	35.18	10 27	12.84	31	21.90	22 02	14.85	4	0.84	39 32	9.00	50	83.09	40 24
13.18	36	79.77	13 43	14.91	30	36.11	17 12	11.82	34	22.56	26 48	10.39	25	6.06	37 54	12.02	51	83.46	40 30
13.96	44	81.78	16 30	15.03	36	37.64	19 04	14.57	34	22.63	28 27	12.42	25	6.09	38 25	14.85	52	83.53	46 04
9.66	45	81.82	17 08	15.68	42	39.12	14 58	15.49	39	23.92	20 23	12.42	31	7.46	39 13	15.22	53	83.95	41 57
15.22	51	83.30	18 26	15.68	43	39.32	12 59	14.10	40	24.16	23 30	13.72	36	8.60	35 17	14.36	10 1	85.88	40 39
13.86	10 0	85.51	16 02	13.14	47	40.29	13 45	15.16?	44	25.07	27 37	15.16	38	9.03	30 57	12.84	3	86.20	43 36
13.96	0	85.52	18 00	13.63	53	41.72	19 55	14.91	46	25.53	21 49	9.18*	40	9.59	38 24	11.63	4	86.41	40 46
14.31	12	88.36	12 40	14.85	14 8	45.41	17 24	12.84	49	26.38	27 38	14.91	45	10.93	32 41	12.02	6	86.92	45 44
10.29	13	88.62	14 59	13.27	11	45.97	14 09	15.03	51	26.70	29 20	13.36	49	11.75	32 37	15.68	12	88.38	42 02
13.36	14	88.87	13 03	13.58	8 40	66.32	23 23	11.63	55	27.75	21 00	13.86	56	13.44	34 53	12.02	33	93.39	48 59
14.36	23	91.17	15 45	11 24	41	66.52	22 45	15.03	56	28.01	23 35	15.16	12 6	15.88	34 20	11.21	39	94.98	44 25
14.10	29	92.60	11 02	15.16	44	67.19	26 58	14.85	58	28.49	21 56	10.82	8	16.27	31 54	14.36	40	95.13	40 50
10.69	33	93.39	12 47	15.49	49	68.39	22 58	15.68	13 1	29.11	22 43	14.46	11	17.15	38 51	14.91	48	97.01	48 29
14.57	36	94.15	11 36	14.62	9 11	73.68	20 26	14.91	13	31.97	26 43	13.05	21	19.45	31 12	10.50	54	98.59	42 50
15.49	36	94.25	13 16	15.68	11	73.68	20 57	14.57	15	32.42	20 41	9.66	24	20.30	33 14	15.68	11 12	2.83	47 12
11.15	37	94.48	18 59	15.68	14	74.39	21 12	14.46	20	33.74	20 53	14.52	28	21.12	39 27	15.34	17	4.13	45 17
15.68	44	96.14	14 56	14.85	23	76.70	27 37	15.49	21	33.95	22 08	13.45	39	23.87	39 28	13.72	19	4.55	48 12
13.63	48	97.21	16 39	13.63	24	76.78	26 17	15.68	22	34.16	20 59	12.02	43	24.90	37 27	15.16	21	5.11	43 10
13.05	48	97.22	14 56	15.03	26	77.38	25 35	15.68	23	34.44	22 22	11.11	46	25.61	33 57	15.34	29	6.87	43 00
12.42	50	97.50	18 53	10.65	27	77.61	26 34	15.68	26	35.08	25 13	15.68	50	26.53	39 27	15.49	32	7.68	42 39
15.68	11 0	99.96	19 10	13.96	29	78.05	28 17	13.96	28	35.79	23 28	15.68	59	28.61	33 39	10.19	48	11.45	46 09
13.86	10	2.46	15 45	15.68	43	81.33	29 04	8.59*	33	36.85	26 11	15.16?	13 2	29.38	35 59	13.72	56	13.41	42 08
14.85	15	3.63	17 31	10.31	50	83.18	22 08	15.68	46	39.99	29 22	15.22	3	29.53	39 03	14.57	57	13.64	48 42
15.68	17	4.06	17 51	10.94	53	83.80	22 09	15.68	46	40.04	27 57	13.72	8	30.90	34 31	15.49	12 7	16.04	42 21
12.97	22	5.27	18 02	15.16	10 13	88.62	28 54	15.22	51	41.24	24 08	15.34	10	31.25	31 36	14.85	7	16.08	44 12
13.72	23	5.53	15 30	14.01	13	88.64	20 20	12.55	8 43	66.97	32 00	15.68	12	31.67	37 23	14.73	21	19.60	46 54
8.13*	25	6.01	16 52	15.22	32	93.23	28 18	13.36	9 0	71.08	38 43	15.03?	18	33.14	32 19	14.10	25	20.43	46 37
14.10	33	7.93	14 06	14.73	37	94.34	20 03	12.63	5	72.39	32 21	15.16?	19	33.41	30 46	7.16*	38	23.80	46 37
14.10	39	9.50	16 07	14.46	37	94.52	22 11	14.46	6	72.51	36 42	14.57	23	34.33	35 16	12.42	13 15	32.44	43 14
14.20	48	11.67	16 03	13.36	41	95.48	27 44	15.68	13	74.27	38 16	15.68	27	35.41	38 03	11.24	20	33.73	41 03

25 prec. + 77 sec. + 8′ 21″.

0^{h} Area 68. $+15^{\circ}$

401—420				421—440				441—460				461—467			
Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.22	13 28	35.50	47 10	12.34	9 21	76.11	50 18	15.68	11 33	7.92	57 23	14.36	13 27	35.34	56 50
14.91	30	35.99	49 37	15.34?	29	78.21	58 19	14.62	38	9.08	50 56	15.49?	44	39.46	58 03
13.05	33	36.74	48 48	15.49	35	79.51	54 44	12.42	52	12.57	52 44	11.63	58	42.88	55 26
15.68	47	40.14	45 17	14.20	59	85.30	51 50	15.49	12 5	15.60	55 23	13.49	14 0	43.26	52 33
15.68	48	40.32	49 17	15.49	10 0	85.62	59 23	10.05	7	16.13	54 28	13.14	1	43.42	53 19
14.20	54	41.85	41 18	15.68	7	87.37	56 23	9.77	12	17.26	57 11	15.34?	1	43.55	54 42
14.10	55	42.00	47 29	15.68	12	88.43	50 28	8.78	12	17.41	57 18	14.31	11	45 85	58 35
15.22	59	43.09	44 08	10.75	16	89.38	55 22	14.57	20	19.16	53 12				
8.51	14 2	43.87	45 36	13.49	31	92.98	53 26	15.49?	21	19.53	55 48				
13.49	7	45.08	41 00	14.06	37	94.37	50 22	14.91?	21	19.58	56 02				
13.27	10	45.73	43 18	14.73	38	94.64	58 32	15.49	23	19.85	53 16				
13.72	8 49	68.45	55 20	13.82	49	97.37	57 05	14.57	34	22.61	51 56				
14.73	54	69.72	54 59	15.68	56	99.07	51 33	14.73	39	23.88	59 00				
13.72	59	70.80	54 16	14.91	57	99.22	55 55	14.73	53	27.15	58 22				
14.91	9 0	71.08	50 36	10.96	11 1	0.17	50 31	14.06	54	27.48	59 21				
13.82	3	71.88	52 21	14.31	2	0.45	56 27	10.44	13 10	31.20	54 28				
15.68	11	73.75	58 22	15.49	10	2.35	51 13	14.85	10	31.32	51 29				
14.85	12	74.16	52 53	15.68	10	2.39	50 47	15.16	24	34.50	58 24				
13.82	15	74.70	53 45	15.68	12	2.82	55 57	14.57	24	34.57	59 11				
10.96	19	75.76	53 13	15.68	12	2.93	53 40	13.58	26	35.02	59 09				

25 prec. + 77 sec. + 8′ 21″.

1^{h} Area 69. Centre for 1900: $1^{\mathrm{h}}\,15^{\mathrm{m}} + 15^{\circ}\,10'$. $+14^{\circ}$

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.42	12 44	67.21	34 24	14.90	16 20	19.38	36 27	14.07	12 49	68.37	41 08	15.37	14 13	88.71	40 00	14.57	16 16	18.49	48 58
13.15	13 3	71.60	32 25	13.41	29	21.43	31 12	15.03	49	68.43	41 36	13.78	13	88.71	44 50	14.31	17	18.55	40 07
15.18	3	71.79	37 05	13.36	31	21.96	31 01	15.18?	53	69.32	42 03	14.25	13	88.74	42 40	10.54	26	20.75	40 33
12.68	44	81.63	34 27	13.67	32	22.23	33 52	13.78	13 8	72.92	43 59	14.70	14	88.98	47 17	14.37?	28	21.25	45 58
12.68	49	82.82	31 12	15.37	33	22.57	34 47	15.03	11	73.69	41 59	15.37	16	89.33	40 52	15.37	37	23.56	48 10
13.01	49	82.84	30 58	8.37	38	23.84	39 12	13.84	20	75.90	40 27	15.37	18	89.74	46 42	15.37	48	26.14	48 52
12.25	57	84.76	36 45	13.62	44	25.14	39 02	12.77	22	76.34	42 50	14.50	20	90.23	42 30	13.11	50	26.57	48 52
14.50	14 4	86.41	38 14	14.57	17 2	29.60	37 46	12.42	26	77.25	49 10	12.77	20	90.30	41 46	15.03	52	27.17	48 02
15.37	14	88.75	37 08	15.37?	12	32.04	31 19	13.62	32	78.77	47 40	12.33	26	91.86	41 09	11.19	54	27.55	41 16
13.25	20	90.30	36 14	15.37	18	33.39	39 26	14.57	34	79.18	43 23	13.90	32	93.35	47 10	15.03	17 17	33.21	48 50
14.25	36	94.07	30 49	14.90	23	34.60	33 53	12.87	37	80.01	42 57	13.96	37	94.45	46 19	15.37	33	37.01	45 16
14.07	54	98.47	36 00	15.37	27	35.45	32 12	15.18	44	81.61	48 02	13.90	42	95.74	48 29	15.37	46	40.23	46 13
14.25	15 12	3.02	39 40	14.25	31	36.45	36 00	14.90	46	82.14	46 41	13.67	46	96.55	45 49	13.62	51	41.30	42 12
14.19	13	3.22	33 05	14.83	47	40.46	30 17	15.18	50	82.99	40 15	14.25	49	97.26	49 14	13.41	18 4	44.46	40 11
13.51	19	4.57	31 28	14.19	48	40.66	34 35	15.37	55	84.21	46 14	12.87	15 17	4.06	47 54	14.57	12 36	65.26	53 50
13.78	21	5.11	35 23	13.90	55	42.33	39 13	14.90	14 2	85.89	45 19	13.78	29	7.06	42 55	13.41	39	65.89	51 18
13.15	23	5.47	31 18	10.87	57	42.95	35 48	14.19	2	85.98	48 58	13.78	37	8.94	44 09	10.87	41	66.39	53 26
15.37	33	8.00	37 31	14.70	12 38	65.79	49 18	12.55	8	87.37	49 28	10.32	50	12.18	47 33	12.77	43	66.86	57 08
12.12	51	12.41	36 25	11.54	46	67.72	40 42	13.62	10	87.93	48 14	14.37	16 0	14.63	43 40	12.51	50	68.64	50 36
12.55	16 19	19.13	33 51	15.37	47	67.90	46 58	13.25	12	88.36	48 06	13.15	12	17.37	41 16	14.37	51	68.94	50 41

25 prec. + 80 sec. + 7′ 55″.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y+70′ / y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
10.03	12 56	69.94	57 14	13.90	14 38	94.81	9 16	14.37	15 25	6.14	19 17	13.01	15 44	10.49	26 35	15.37	15 18	4.32	38 21
12.64	13 4	72.01	57 26	12.21	40	95.21	7 50	13.90	26	6.24	13 47	13.78	57	13.71	28 37	14.70	22	5.35	38 48
11.19	5	72.19	57 51	14.90	40	95.22	5 25	13.62	26	6.37	12 09	15.37	16 12	17.27	21 34	14.07	34	8.13	36 57
13.90	30	78.26	51 27	13.11	42	95.73	2 23	12.77	34	8.14	14 04	14.70	21	19.55	25 16	14.13	49	11.84	39 52
9.35	33	79.09	58 19	15.25	47	96.79	1 52	13.90	44	10.59	15 34	12.91	32	22.08	27 49	12.87	16 3	15.28	34 45
12.77	35	79.55	52 02	15.18	51	97.85	9 02	11.03	46	11.01	10 17	14.19?	50	26.44	26 46	13.15	7	16.12	34 26
13.11	51	83.34	53 46	15.18	54	98.57	6 12	12.25	49	11.86	13 34	14.25	54	27.40	26 44	12.77	8	16.30	33 12
14.90	51	83.37	51 43	14.37	15 6	1.52	8 46	14.37	53	12.88	10 54	14.57	57	28.21	28 09	11.92	15	18.06	33 34
13.01	52	83.68	50 13	14.50	8	1.84	1 21	13.96	16 3	15.13	13 10	13.15	57	28.23	21 56	12.77	28	21.14	36 09
12.77	56	84.53	52 50	14.57	25	6.00	8 26	14.07	8	16.49	18 21	13.96	17 6	30.40	28 58	12.64	35	22.85	35 45
11.54	14 2	86.05	57 11	15.18	38	9.11	8 52	15.37	19	19.05	11 28	14.70	13	32.13	28 11	15.37	41	24.37	33 50
14.37	5	86.62	55 32	14.83	16 5	15.58	5 31	13.30	21	19.53	19 34	14.25	14	32.30	26 02	15.18	44	25.06	33 45
14.90	9	87.79	59 38	15.37	5	15.69	5 27	15.18	21	19.57	16 59	15.37	20	33.82	21 37	14.19?	53	27.18	36 01
13.96	35	93.90	54 58	15.03	12	17.37	9 31	15.03	38	23.62	11 08	14.19	26	35.21	22 17	15.18	17 5	30.21	39 51
13.78	45	96.31	58 42	14.50	12	17.44	0 14	7.66*	42	24.67	16 03	15.37	27	35.40	27 59	14.19	6	30.41	34 57
13.67	46	96.63	50 38	13.01	13	17.59	6 14	14.19	56	28.01	15 02	12.68	33	36.80	28 06	11.36	9	31.11	30 55
13.11	15 7	1.71	56 55	15.37	17	18.53	3 37	15.18	17 6	30.37	12 53	15.18	37	37.95	24 01	12.91	16	32.69	36 08
11.36	8	1.84	52 58	14.83	36	23.23	0 56	13.62	7	30.69	13 22	14.57?	48	40.37	21 03	14.19	31	36.37	31 10
13.96	12	2.96	58 29	13.15	37	23.40	5 30	13.25	13	32.09	14 21	12.96	48	40.51	29 36	14.57	36	37.52	32 10
15.37?	21	5.04	58 44	14.07	39	23.88	9 08	15.37	33	36.91	13 37	14.83	59	43.25	26 31	15.37	18 1	43.58	35 52
15.18?	22	5.25	58 47	14.83?	45	25.33	2 14	14.90	38	38.21	14 21	14.83?	12 39	66.09	38 59	15.37	12 47	67.89	46 29
13.90	31	7.41	50 24	13.36	47	25.83	9 51	12.68	40	38.71	12 15	13.01	40	66.39	36 57	14.25	54	69.57	41 55
15.18	37	8.96	55 33	15.37	47	25.88	8 43	15.18	43	39.35	18 25	13.36	41	66.46	39 45	14.37	57	70.32	49 46
14.07	39	9.34	51 35	13.36	58	28.36	8 16	15.18	48	40.59	12 45	14.83	45	67.54	38 31	15.37	57	70.50	49 58
10.72	16 6	16.01	56 56	14.70	17 2	29.44	6 56	13.78	51	41.14	12 58	15.03	47	68.00	37 48	13.67	13 2	71.53	48 01
15.37	7	16.19	56 40	12.68	8	30.99	3 16	15.37	12 37	65.43	24 55	15.03	49	68.36	34 04	13.36	2	71.55	46 20
13.01	8	16.42	52 27	15.03?	12	31.83	5 24	15.37	52	69.08	22 39	15.37	51	68.86	32 04	15.37	44	81.72	47 57
11.03	18	18.91	55 18	15.37?	12	31.87	5 18	13.67	13 2	71.56	22 09	15.37	13 4	71.96	32 19	14.50	45	82.00	45 25
10.72	36	23.18	56 58	13.36	15	32.56	8 35	12.12	6	72.64	22 12	13.67	15	74.76	32 16	12.33	46	82.11	42 25
11.92	37	23.41	51 33	14.57	25	34.94	1 20	15.37	20	75.81	24 25	15.03	15	74.83	31 21	13.01	48	82.60	48 19
11.92	39	23.90	56 33	15.03	28	35.82	0 55	11.03	24	76.82	20 36	13.90	26	77.25	38 23	13.15	14 12	88.43	44 20
13.41	40	24.18	50 44	13.90	34	37.16	7 08	14.57	35	79.45	24 05	13.96	36	79.72	35 01	14.57	18	89.89	47 08
15.37	42	24.68	55 23	12.42	44	39.61	3 59	12.12	37	79.94	22 00	14.37	37	80.03	39 05	14.83?	19	90.17	46 32
14.70	46	25.56	52 54	13.15	50	41.01	8 45	13.78	40	80.83	29 34	14.57	45	82.04	34 04	12.87	25	91.65	44 25
13.20	55	27.68	59 48	14.50	51	41.18	8 13	13.51	40	80.84	23 46	14.19	48	82.73	38 25	14.37	26	91.71	41 11
12.21	58	28.56	55 23	12.33	56	42.43	0 58	15.18	54	84.15	20 11	14.57?	59	85.38	36 20	14.07	38	94.77	46 21
11.73	17 1	29.24	57 52	15.37	18 3	44.10	3 32	15.18	14 2	86.14	27 31	13.36	14 4	86.45	39 10	15.03	48	97.04	46 50
13.41	5	30.19	52 21	14.50?	12 57	70.27	13 33	14.37	6	86.91	27 06	13.62	14	88.95	37 18	12.25	49	97.42	48 25
14.50	8	31.00	50 07	14.25	59	70.93	12 18	11.03	10	87.99	29 00	10.87	24	91.37	32 16	14.50	59	99.73	43 05
12.12	39	38.52	59 43	14.50	13 10	73.39	18 20	12.77	20	90.25	26 22	15.37	28	92.41	39 19	15.37	15 12	3.01	46 28
13.78	57	42.71	53 45	15.37	16	74.91	14 14	14.90	31	92.90	29 46	15.37	32	93.33	39 19	14.83	18	4.35	48 39
14.50	12 42	66.75	7 54	14.25	20	75.82	13 46	15.37	32	93.22	26 56	14.90	34	93.64	37 24	14.70	22	5.39	48 34
12.77	49	68.27	5 17	13.41	42	81.09	15 46	10.56	38	94.58	20 25	13.90	36	94.19	36 34	14.57	26	6.13	42 18
14.63	52	69.05	9 58	14.07	44	81.76	11 26	14.57	44	96.04	27 14	14.07	39	94.89	36 46	12.91	31	7.55	40 34
12.91	13 4	72.00	3 02	13.41	57	84.70	16 48	14.57?	46	96.66	28 36	13.67	43	95.87	36 39	13.90	33	7.96	42 14
11.73	37	80.03	6 46	15.37	14 19	90.01	16 58	13.11	48	97.05	28 04	12.68	43	95.92	35 33	15.18	44	10.62	44 04
14.57	48	82.53	4 19	12.77	34	93.69	19 12	13.15	57	99.37	23 43	13.41	45	96.34	33 20	15.37	44	10.68	47 26
10.62:	53	83.84	6 22	12.51	55	98.83	10 15	14.90	15 2	0.36	20 51	13.90	49	97.27	30 59	15.37	52	12.47	42 04
14.19	14 1	85.74	5 56	14.57	15 1	0.22	11 18	15.37	16	3.79	25 54	15.03	57	99.28	37 04	12.00	58	14.02	42 23
14.25	22	90.72	4 46	7.97*	21	5.12	10 17	11.54	24	5.83	25 30	13.25	15 17	4.16	38 59	14.50	16 1	14.73	45 53

25 prec. + 80 sec. + 7′ 54″.

1^h Area 69. $+15^\circ$

351—360				361—370				371—378			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.77	16 4	15.44	47 15	14.07	17 5	30.14	40 51	15.37	17 42	38.99	40 47
14.07	19	19.02	45 58	13.25	14	32.32	42 49	9.33	48	40.54	46 49
14.37	34	22.60	40 05	9.55	22	34.10	47 06	15.18	50	40.93	46 15
11.03	35	22.91	42 34	15.18	24	34.56	49 45	15.37	50	41.02	42 10
12.91	36	23.19	47 59	14.25	28	35.59	49 09	13.78	51	41.22	42 38
15.37	42	24.59	41 34	12.42	29	35.82	46 35	14.83	52	41.45	48 23
15.37	46	25.52	47 16	14.19	30	36.20	45 00	14.90	18 1	43.44	44 08
13.90?	58	28.42	40 38	12.42	31	36.23	42 29	12.42	4	44.16	45 31
15.18	59	28.61	45 40	15.37	38	37.92	46 11				
13.96?	17 4	29.74	49 05	15.18	38	38.12	46 21				

25 prec. + 80 sec. + 7′ 53″.

2^h Area 70. Centre for 1900: $2^h\ 16^m + 15^\circ\ 0'$. $+14^\circ$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.26	13 36	65.20	23 45	16.03	17 0	14.49	21 31	14.80	15 2	86.07	38 22	13.55	17 50	26.56	33 16	12.55	16 24	5.68	43 45
16.03	49	68.28	27 03	15.84	3	15.23	28 18	13.13	10	87.98	33 08	14.42	54	27.57	37 53	15.69	39	9.53	43 45
9.26	55	69.66	26 55	12.74	5	15.75	27 21	16.03	14	88.89	36 40	15.51	18 5	30.28	35 27	13.69	46	11.15	47 57
14.11	14 14	74.40	26 48	10.39	17	18.74	22 18	14.42 :	16	89.40	36 52	15.84	8	30.86	35 24	15.26	46	11.20	46 03
12.37	25	76.93	21 32	11.33	32	22.28	24 39	16.03	17	89.49	38 17	14.91	12	31.97	37 49	15.26	50	12.03	45 09
11.33	33	78.84	23 17	15.08	49	26.42	29 47	12.19	17	89.62	34 43	16.03	17	33.17	39 31	11.33	50	12.17	42 04
11.84	34	79.15	26 06	10.12	58	28.47	23 38	15.26	23	91.11	30 58	14.58	35	37.59	39 59	11.33	51	12.45	42 57
14.97	42	81.17	22 40	14.37	59	28.88	28 19	16.03	27	92.10	32 22	13.60	52	41.61	39 56	16.03	52	12.55	41 40
14.01	46	82.09	24 08	16.03	18 11	31.66	29 08	12.74	33	93.49	32 10	15.84	59	43.32	37 11	14.37	17 15	18.13	41 22
16.03	48	82.55	25 14	14.37	21	34.05	24 03	15.51	37	94.32	35 03	14.42	13 43	66.94	43 36	14.69	18	18.75	46 58
15.38	49	82.89	29 24	13.34	22	34.41	22 51	12.19	38	94.71	35 36	14.91	53	69.23	48 00	16.03	29	21.51	45 44
13.34	57	84.83	29 10	14.16	25	35.08	28 58	13.42	40	95.24	34 15	12.55	56	70.03	45 50	16.03	30	21.77	43 30
11.00	15 13	88.64	23 09	13.55	35	37.47	20 42	15.20	42	95.70	39 45	12.19	57	70.27	48 37	16.03	32	22.25	49 22
16.03	16	89.29	27 23	15.08	35	37.55	25 04	16.03	56	99.00	31 43	15.84	14 6	72.56	48 31	13.87	44	25.19	46 12
14.80	21	90.54	26 18	13.64	56	42.49	28 46	15.69	16 6	1.47	38 00	14.26	13	74.09	46 13	14.01	45	25.43	42 53
14.01	23	91.04	25 04	13.13	59	43.34	27 53	15.08	12	2.95	30 37	15.38	16	74.76	49 06	15.38	50	26.56	42 32
14.63	27	92.10	26 04	12.37	13 37	65.38	36 41	15.69	16	3.99	38 34	14.26	16	74.91	42 27	15.08	50	26.59	47 45
16.03	32	93.11	28 26	15.69	14 10	73.36	36 40	14.37	17	4.03	35 28	14.42	21	76.09	49 12	12.37	18 17	33.09	41 29
10.84	54	98.62	20 00	13.13	20	75.73	32 19	14.16	23	5.51	35 20	16.03	57	84.85	40 59	12.74	18	33.35	41 29
15.69	16 0	0.09	25 06	14.52	20	75.76	31 13	13.55	46	11.06	33 20	16.03	15 6	86.92	47 54	16.03	23	34.54	40 43
16.03	1	0.13	26 17	14.42	21	75.94	32 19	14.69	52	12.66	34 31	15.84	7	87.11	48 15	15.08	50	41.14	48 43
16.03	7	1.58	23 44	13.05	32	78.77	35 44	14.80	17 6	15.86	33 36	12.37	7	87.15	43 36	14.26	59	43.39	46 15
16.03	15	3.64	25 14	15.26	34	79.27	31 38	15.84	14	17.83	33 44	16.03	16	89.31	43 12	12.55	19 6	45.00	40 00
14.63	18	4.36	22 22	15.08	42	81.09	38 57	12.74	14	18.03	33 36	16.03	22	90.86	46 56	16.03	13 41	66.48	51 05
12.37	28	6.69	24 07	16.03	44	81.55	35 35	15.08	29	21.59	36 21	15.20	42	95.75	49 52	15.69	41	66.50	54 19
16.03	37	8.94	20 59	14.37	44	81.59	34 57	12.55	36	23.20	31 59	11.67	16 5	1.19	48 12	12.19	14 7	72.71	51 34
11.67	41	10.03	29 32	14.91	45	81.88	33 31	14.80	37	23.58	34 50	14.91	6	1.56	44 34	15.26	29	78.13	57 09
15.20	51	12.34	20 50	16.03	46	82.14	30 53	12.37	38	23.71	35 18	15.20	13	3.24	46 10	15.84	31	78.60	52 57
15.26	52	12.50	22 21	16.03	56	84.39	38 22	15.51	41	24.35	34 07	15.38	15	3.61	43 00	15.84	39	80.49	52 03
15.84	56	13.52	29 28	15.20	59	85.22	30 48	14.69	43	24.87	30 21	14.52	21	5.02	47 32	16.03	42	81.08	51 46

25 prec. + 82 sec. + 6′ 55″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	$\frac{y+60'}{y+0'}$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	'	' ''		m s	'	' ''		m s	'	' ''		m s	'	' ''		m s	'	' ''
16.03	15 2	86.05	56 45	15.26	14 39	80.55	4 46	7.85*	18 59	43.15	4 24	16.03	18 43	39.26	12 16	16.03	16 53	12.85	29 21
12.37	16	89.27	58 34	14.11	41	80.84	3 20	16.03	19 0	43.44	6 54	15.26	49	40.74	11 51	14.52	17 4	15.48	27 34
15.26	20	90.41	54 30	15.26	41	80.98	8 10	12.55	13 40	66.18	13 48	13.55	51	41.24	19 38	15.84	15	18.00	25 48
15.08	26	91.83	57 58	13.69	50	83.19	4 46	11.50	48	68.22	18 01	14.01	54	41.92	19 28	12.19	23	19.90	24 48
15.26	28	92.19	54 36	11.00	59	85.22	4 31	14.11	53	69.36	13 51	15.84	54	41.96	10 11	14.42	45	25.38	25 39
12.37	38	94.61	51 32	14.37	15 1	85.73	5 58	13.42	14 16	74.83	18 49	13.21	55	42.21	16 49	14.26	48	25.94	20 37
15.08	52	98.13	52 06	13.55	3	86.22	7 07	14.42	17	75.27	11 02	9.55	19 6	44.77	13 58	16.03	52	26.95	25 41
15.84	58	99.47	55 33	11.50	3	86.23	2 53	15.69	18	75.49	12 56	15.57	13 40	66.23	29 38	15.84	56	28.06	28 52
15.84	59	99.71	59 52	14.91	4	86.40	9 03	14.63	23	76.64	13 49	16.03	40	66.28	29 10	16.03	57	28.30	24 17
15.26	16 17	4.16	56 04	15.84	15	89.25	9 25	13.92	29	78.14	11 39	15.20	48	68.19	22 48	12.86	18 5	30.16	26 20
15.69	21	5.13	53 54	15.26	21	90.64	7 30	15.51	31	78.56	17 47	14.69	56	70.00	25 04	14.69	19	33.54	29 31
16.03	30	7.28	53 38	13.01	28	92.18	6 41	14.01	36	79.83	12 05	14.37	59	70.74	24 28	15.38	38	38.02	23 40
15.38	37	8.84	50 45	13.01	32	93.12	2 04	13.55	58	84.99	13 30	14.42	59	70.90	28 22	16.03	38	38.18	29 04
14.52	43	10.44	54 35	16.03	32	93.24	5 32	16.03	15 0	85.56	17 15	15.69	14 0	71.15	29 32	15.08	45	39.74	20 34
12.02	48	11.57	53 12	11.16	40	95.13	6 58	16.03	4	86.47	13 18	14.16	3	71.73	27 17	12.86	50	41.06	24 24
12.93	48	11.64	52 00	16.03	51	97.72	5 58	14.91	7	87.21	16 35	14.69	9	73.28	20 35	14.37	53	41.66	23 48
15.69	58	14.08	50 53	15.69	52	98.16	6 48	15.26	9	87.59	18 26	15.84	11	73.66	24 14	16.03	58	43.01	23 35
12.02	17 2	15.01	54 56	14.63	55	98.82	7 01	13.47	9	87.79	12 47	16.03	12	73.91	21 17	13.73	19 0	43.31	20 16
15.08	3	15.28	52 24	14.52	59	99.67	5 55	16.03	40	95.09	14 24	14.63	16	75.02	27 05	13.13	13 36	65.25	31 36
16.03	7	16.17	55 54	16.03	16 1	0.18	4 05	15.69	46	96.62	13 32	14.52	26	77.32	20 12	14.69	36	65.43	38 20
15.69	16	18.31	59 34	13.55	8	2.00	3 08	13.92	46	96.74	10 22	15.08	32	78.90	21 08	14.52	42	66.89	36 37
15.84	27	20.95	52 07	11.33	18	4.30	0 08	13.55	54	98.46	16 56	16.03	38	80.25	25 28	14.01	14 11	73.75	35 31
10.84	27	21.11	56 26	7.63*	19	4.54	3 41	15.20	59	99.86	19 36	16.03	47	82.39	28 57	13.92	22	76.49	38 06
13.42	33	22.43	55 31	15.20	43	10.28	0 42	16.03	16 0	99.89	11 30	12.74	52	83.57	26 06	15.84	31	78.63	30 38
9.44	48	26.06	53 35	16.03	51	12.23	1 36	14.69	5	1.26	12 19	14.42	15 3	86.23	25 45	16.03	34	79.17	33 46
10.25	48	26.12	57 28	12.86	17 4	15.57	3 58	16.03	12	2.78	16 24	14.63	3	86.28	21 47	15.84	34	79.32	36 45
12.93	50	26.69	55 26	16.03	5	15.68	5 57	14.52	19	4.62	12 08	12.02	9	87.62	21 03	14.41	40	80.65	39 06
9.66	51	26.70	57 34	13.26	7	16.16	3 34	15.69	21	5.05	10 05	13.05	10	88.03	20 50	14.52	40	80.68	33 30
15.26	18 8	30.96	59 56	15.26	20	19.42	2 48	14.63	24	5.70	16 52	14.86	23	91.13	29 47	14.16	43	81.38	36 17
15.08	13	32.05	50 55	14.63	28	21.13	0 17	15.20	26	6.37	17 48	14.69	23	91.18	24 23	13.55	46	82.15	31 56
14.16	15	32.66	55 13	16.03	36	23.20	0 41	13.64	36	8.77	16 21	16.03	34	93.70	22 58	15.51	53	83.84	38 52
11.33	18	33.41	59 32	12.02	46	25.59	4 04	15.84	38	9.12	12 57	14.01	35	94.09	21 39	14.52	53	83.87	32 06
15.26	22	34.39	54 00	15.84	47	25.90	3 07	15.38	39	9.49	15 22	13.78	38	94.81	20 28	15.84	59	85.28	30 14
15.20	22	34.42	59 59	16.03	54	27.61	3 55	13.05	43	10.37	16 34	15.84	53	98.42	27 36	15.69	15 1	85.83	36 24
12.74	30	36.20	55 01	16.03	57	28.16	9 32	16.03	46	11.20	12 51	14.80	57	99.30	27 12	16.03	2	86.04	30 49
14.16	33	36.91	53 29	15.26	57	28.35	2 29	12.02	52	12.65	16 38	15.38	16 1	0.17	21 29	14.37	10	87.98	34 22
15.69	35	37.36	56 51	13.13	18 0	28.85	2 39	14.52	55	13.20	16 54	15.69	4	0.98	25 23	15.69	13	88.70	30 53
14.69	40	38.77	51 07	14.86	4	30.01	0 06	14.11	17 1	14.61	15 23	15.20	9	2.16	29 45	15.84	27	92.13	32 49
14.01	48	40.49	50 08	14.91	10	31.45	1 45	14.42	10	16.84	10 33	14.86	14	3.27	29 26	15.69	33	93.53	34 26
13.05	19 5	44.67	50 48	15.38	14	32.37	3 57	15.57	28	21.13	19 10	16.03	14	3.33	21 00	14.37	33	93.58	34 51
12.74	6	44.84	53 36	16.03	16	32.82	2 23	15.20	34	22.61	19 01	14.11	16	3.90	25 21	16.03	35	94.08	31 59
12.55	13 36	65.33	5 28	14.80	17	33.04	5 36	12.93	43	24.88	14 30	16.03	20	4.84	27 25	13.42	16 12	3.00	35 58
13.83	37	65.47	9 42	15.51	23	34.50	0 50	16.03	18 1	29.14	18 24	15.26	24	5.67	20 11	13.21	17	4.20	30 55
16.03	45	67.51	0 33	16.03	29	35.94	1 44	14.97	14	32.37	11 31	13.05	30	7.11	27 10	12.02	18	4.37	39 47
15.84	51	68.75	9 30	16.03	30	36.09	3 12	13.55	14	32.38	13 37	16.03	36	8.70	22 34	16.03	25	5.97	36 50
12.37	14 6	72.38	8 22	15.57	30	36.22	9 20	15.08	14	32.38	18 23	12.37	44	10.48	20 44	8.30	31	7.55	32 12
12.97	7	72.76	9 42	16.03	40	38.52	2 36	15.38	20	33.80	18 01	11.00	44	10.59	24 27	14.11	17 2	14.87	38 02
13.64	10	73.37	2 24	15.84	41	38.88	1 16	14.42	20	33.85	12 04	15.84	45	10.93	21 22	14.80	12	17.31	34 51
12.55	15	74.74	5 44	16.03	49	40.91	9 47	15.69	22	34.16	12 04	15.51	48	11.55	27 13	9.64*	14	17.92	33 43
16.03	20	75.85	7 55	16.03	55	42.13	9 40	14.97	27	35.46	17 23	15.08	51	12.27	29 16	15.26	16	18.41	39 14

25 prec. + 82 sec. + 6′ 55″.

401—410				411—420				421—424			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.84	17 19	19.07	31 04	13.64	17 49	26.25	37 44	15.69	18 48	40.43	33 32
11.33	23	20.03	30 32	15.57	18 6	30.37	39 24	14.26	54	41.80	34 34
16.03	24	20.29	38 46	15.51	13	32.09	34 20	14.52	19 2	43.72	39 12
16.03	25	20.43	36 20	16.03	13	32.11	35 55	14.63	2	43.86	34 59
16.03	29	21.36	39 21	14.97	16	32.64	30 52				
16.03	29	21.53	34 06	13.34	19	33.50	35 54				
14.69	35	22.97	33 58	13.69	24	34.79	32 34				
14.80	36	23.03	38 30	16.03	36	37.67	30 39				
14.69	38	23.66	38 48	13.87	37	37.89	35 18				
16.03	41	24.31	35 53	16.03	44	39.55	33 07				

25 prec. + 82 sec. + 6′ 53″.

3^h Area 71. Centre for 1900: $3^h\ 11^m + 15°\ 0′$. + 14°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
10.94	9 35	79.33	31 30	14.46	11 51	12.44	36 34	15.97	9 55	84.33	40 31	14.21	12 12	17.40	46 55	14.64	10 12	88.53	53 25
15.97	36	79.65	39 06	14.69	52	12.50	33 31	15.30	10 13	88.59	43 41	14.69	29	21.41	42 19	11.50	21	90.67	51 25
15.43	37	79.90	32 09	15.97	54	12.97	31 47	14.04	20	90.42	41 10	11.42	40	24.18	48 50	13.31	25	91.44	59 42
15.13	40	80.53	32 31	15.97	12 0	14.42	38 55	14.21	35	93.96	44 05	12.32	41	24.41	46 20	15.02	26	91.83	59 11
15.97	46	81.99	34 11	14.69?	7	16.18	38 49	15.97	53	98.24	45 01	14.88	44	25.03	44 49	13.04	32	93.30	53 09
13.23	47	82.41	37 49	14.83	10	16.98	39 59	12.72	11 7	1.73	48 32	14.08	44	25.26	49 52	12.13	34	93.76	58 19
15.97	51	83.21	39 27	14.64	13	17.74	30 06	12.32	7	1.81	48 45	15.19	46	25.58	42 44	15.97	36	94.30	59 43
15.63	57	84.66	38 15	15.97	30	21.75	35 30	15.02	8	1.94	48 59	15.13	46	25.68	43 14	14.64	41	95.41	55 17
15.37	57	84.84	39 42	14.33	32	22.19	34 40	15.19	8	1.99	42 00	8.58	53	27.26	49 08	15.43	47	96.97	53 06
15.97	10 5	86.68	39 46	15.78	33	22.55	36 37	14.51	11	2.66	49 54	11.65	54	27.46	45 04	15.19	54	98.54	57 51
10.93	6	86.97	39 10	15.13	37	23.35	31 03	14.00	12	2.87	48 53	15.97	55	27.89	42 10	15.97	11 3	0.76	56 15
14.42	23	90.99	36 55	13.59	38	23.82	33 09	14.21	13	3.19	44 17	14.64	58	28.45	46 56	14.33	9	2.16	59 08
15.97	29	92.38	30 32	15.97	44	25.11	31 13	15.97	14	3.30	43 19	15.97	13 5	30.20	49 49	15.30	12	2.82	53 03
15.02	40	95.21	38 45	15.02	53	27.36	34 29	14.00	15	3.61	46 07	15.97	5	30.28	48 51	15.63	21	5.00	52 58
14.93	42	95.60	35 01	14.55	53	27.43	39 48	15.97	20	4.88	49 14	14.64	10	31.52	48 36	14.60	24	5.76	50 17
15.97	53	98.22	36 00	14.93	57	28.18	30 20	14.93	20	4.88	48 55	15.43	13	32.13	49 30	14.64	25	6.15	59 05
13.23	11 2	0.48	33 26	15.13	13 5	30.19	30 37	15.30	22	5.32	40 28	15.97	20	33.87	45 41	10.84	26	6.34	53 08
13.04	4	1.01	39 08	15.02	18	33.42	36 00	15.13	22	5.42	40 03	13.63	20	33.90	45 13	15.97	29	6.90	58 09
15.63	6	1.48	39 38	15.97	25	35.04	35 58	15.78	36	8.59	42 40	14.64	25	35.14	44 37	15.78	30	7.19	52 05
15.97	8	2.01	38 37	14.84	29	35.98	39 18	13.71	38	9.19	47 52	14.46	26	35.20	41 32	15.50	34	8.18	53 26
15.50	15	3.63	36 06	15.50	30	36.24	36 40	15.78	38	9.21	47 46	14.46	33	37.00	45 58	15.13	36	8.65	58 12
14.88	16	3.83	35 51	15.63	38	38.25	36 39	15.37	39	9.46	40 32	14.00	38	38.29	46 31	15.78	40	9.65	53 47
14.69	17	4.19	33 42	15.78	40	38.62	34 22	13.79	40	9.58	44 21	15.97	9 33	79.09	59 12	14.88	40	9.65	50 51
15.97	18	4.40	33 19	15.78	9 36	79.57	44 47	14.04	44	10.62	46 34	12.13	40	80.75	56 30	15.97	45	10.81	54 44
15.78	27	6.51	35 02	14.12	36	79.79	47 04	15.97	49	11.81	40 06	14.25	49	82.89	51 26	15.97	45	10.84	53 33
15.43	32	7.67	37 29	11.65	40	80.74	42 33	13.79	56	13.50	49 45	14.69	50	83.10	54 11	13.91	57	13.83	50 45
15.02	40	9.63	38 49	14.93	43	81.40	46 27	15.30	12 3	15.31	44 50	14.12	10 1	85.84	53 16	15.97	57	13.86	58 44
14.46	46	11.10	30 38	15.19	48	82.50	47 57	15.97	5	15.60	43 46	15.63	3	86.12	51 28	14.64	12 7	16.10	59 40
14.69	50	12.04	38 32	14.33	49	82.91	43 09	12.13	6	15.96	47 11	15.78	9	87.71	54 43	14.64	11	17.11	57 33
14.69	51	12.35	31 03	15.50	50	83.03	45 25	9.70	9	16.60	43 48	12.13	10	88.03	54 20	15.97	18	18.93	52 22

25 prec. + 83 sec. + 5′ 36″.

151—200				201—250				251—300				301—350				351—358			
Int. magn.	α	x	y+60′ / y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.93	12 35	22.86	52 00	14.88	11 18	4.43	2 05	14.55	10 31	93.11	13 07	15.78	13 26	35.25	11 03	15.97	13 22	34.27	21 11
15.97	44	25.15	54 36	15.50	20	4.90	8 05	14.55	49	97.31	17 26	11.93	36	37.66	13 37	14.64	24	34.65	27 45
12.52	45	25.31	55 32	12.32	29	7.08	3 39	14.21	51	97.79	15 46	15.97	38	38.18	10 28	14.42	27	35.47	27 43
15.02	45	25.35	58 12	15.78	30	7.34	6 11	14.93	52	98.09	16 37	15.97	41	38.86	17 06	15.19	30	36.23	23 54
15.13	47	25.75	51 28	9.36*	37	8.95	2 23	13.51	54	98.61	11 39	13.23	9 39	80.53	28 00	14.88	32	36.55	27 59
14.55	47	25.87	57 32	15.19	37	9.00	6 46	10.06	58	99.62	16 11	15.97	48	82.55	25 51	11.33	33	36.76	29 21
15.43	48	25.99	52 02	10.89	39	9.31	8 11	9.07	11 7	1.67	17 35	15.97	10 0	85.53	29 38	14.78	36	37.65	24 11
13.11	49	26.43	54 26	14.42	49	11.83	5 30	13.43	10	2.44	17 46	11.25	7	87.24	29 50	13.79	39	38.29	24 18
13.71	52	26.99	51 13	11.93	49	11.90	5 45	14.33	15	3.68	15 18	11.24	18	89.88	23 24				
12.52	55	27.82	57 39	12.92	55	13.23	9 29	11.93	29	6.89	15 25	14.21	30	92.76	21 19				
13.31	58	28.41	56 28	12.44	58	13.92	1 52	15.97	29	6.95	10 22	15.63	33	93.52	24 50				
12.52	13 1	29.33	55 08	14.64	12 25	20.43	7 32	14.46	30	7.13	11 41	13.11	42	95.78	29 43				
15.97	24	34.86	58 15	12.52	28	21.12	6 20	12.32	30	7.18	15 32	15.97	45	96.47	22 10				
14.12	26	35.17	54 15	14.46	33	22.45	5 47	14.04	35	8.40	16 27	14.93	50	97.59	22 35				
12.72	26	35.19	52 13	14.93	35	22.91	8 29	15.97	37	9.02	19 15	15.19	50	97.64	25 49				
15.19	27	35.39	52 26	14.12	39	23.79	9 06	14.04	38	9.16	17 54	15.97	11 2	0.48	25 12				
14.04	30	36.16	55 23	11.11	46	25.50	3 46	15.97	41	9.95	15 33	14.46	2	0.60	29 14				
15.97	34	37.19	57 11	15.97	50	26.43	3 58	15.43	43	10.33	11 11	15.97	4	0.94	26 17				
14.88	39	38.32	52 17	14.88	51	26.79	8 11	15.97	43	10.45	15 35	15.19	7	1.68	27 07				
12.52	40	38.68	51 13	13.71	52	27.04	4 04	14.33	43	10.47	17 59	14.93	13	3.21	27 22				
15.97	41	38.93	51 16	15.63	53	27.15	0 39	15.19	47	11.40	13 09	15.97	19	4.61	28 32				
14.88	42	39.03	57 31	14.78	57	28.19	3 18	13.51	49	11.75	15 07	13.83	34	8.30	26 33				
15.97	9 34	79.12	5 11	15.97	13 1	29.14	5 42	14.93	57	13.76	18 35	15.43	39	9.33	29 17				
15.30	41	80.89	8 59	12.13	3	29.70	4 39	14.64	12 6	15.89	14 30	15.63	42	10.14	20 07				
15.19	43	81.52	6 42	12.92	4	29.82	4 44	14.12	7	16.23	18 40	14.46	44	10.69	27 36				
14.21	44	81.61	2 12	14.88	11	31.60	9 16	11.93	8	16.47	18 03	14.33	47	11.25	22 48				
15.97	53	83.82	1 24	14.69	13	31.99	7 15	15.02	8	16.52	15 26	13.71	50	12.09	23 11				
14.55	57	84.82	4 19	15.97	18	33.20	1 26	15.13	10	16.81	11 56	15.43	52	12.60	21 12				
14.93	10 5	86.76	8 10	14.64	25	34.97	3 26	15.97	10	16.99	10 54	13.11	53	12.88	29 15				
15.19	8	87.37	6 16	14.88	25	35.06	2 37	14.64	18	18.78	12 14	14.78	54	12.91	24 06				
15.97	8	87.42	4 06	15.13	26	35.29	3 06	15.97	22	19.84	14 48	14.42	55	13.14	27 48				
13.31	9	87.71	9 24	15.19	36	37.73	2 54	13.51	24	20.15	11 15	15.97	56	13.61	27 49				
15.97	9	87.74	8 50	13.91	38	38.02	1 59	15.50	25	20.62	18 41	14.21	12 4	15.50	24 50				
14.25	16	89.48	8 40	15.97	40	38.65	5 39	15.63	28	21.15	16 20	15.02	9	16.55	27 10				
15.97	18	89.84	2 59	13.51	9 46	82.26	17 26	13.91	29	21.55	12 11	15.97	12	17.24	26 14				
15.97	20	90.37	1 29	15.97	50	83.15	16 58	15.97	31	21.91	15 50	14.69	13	17.68	27 51				
15.43	22	90.79	8 09	15.97	58	84.94	14 19	14.88	31	21.96	11 03	14.46	16	18.36	25 10				
13.63	24	91.30	0 09	14.25	10 1	85.75	13 48	15.19	31	21.97	10 46	15.19	18	18.92	25 17				
14.21	25	91.56	7 49	15.97	1	85.76	12 26	14.78	32	22.10	14 19	15.78	20	19.26	28 35				
15.50	34	93.71	1 25	15.63	2	85.94	15 51	14.93	33	22.47	17 36	15.19	27	20.85	23 05				
14.33	40	95.14	1 01	15.63	2	85.98	17 44	14.64	33	22.54	13 04	15.30	28	21.12	27 09				
15.02	41	95.37	7 38	15.02	4	86.52	17 27	15.97	41	24.31	13 23	15.97	33	22.49	24 31				
14.25	49	97.28	9 14	15.63	7	87.25	18 26	15.97	13 1	29.12	11 16	15.13	34	22.64	26 59				
13.71	49	97.36	4 44	15.19	10	87.95	19 23	14.93	2	29.50	14 19	15.97	34	22.70	22 35				
12.92	57	99.18	1 58	14.55	14	88.83	17 38	13.71	10	31.38	10 50	15.19	39	23.93	23 11				
15.50	59	99.75	9 43	12.13	16	89.49	15 39	15.02	21	34.11	16 18	15.30	42	24.47	22 41				
15.97	11 1	0.25	2 44	15.97	20	90.36	13 13	15.13	22	34.35	19 16	11.42	52	26.92	22 04				
15.78	7	1.77	0 55	15.02	25	91.68	17 51	14.25	23	34.43	10 41	14.55	57	28.08	21 03				
15.97	12	2.79	9 28	15.30	26	91.89	18 59	13.79	25	34.97	13 54	15.78	13 9	31.01	22 04				
12.52	14	3.31	5 06	15.02	31	93.07	18 45	15.78	26	35.16	12 01	14.60	15	32.60	20 21				

25 prec. + 83 sec. + 5′ 36″.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.56	8 6	72.38	46 20	15.52	12 7	30.77	46 45	16.17?	8 7	72.69	1 27	16.36	8 16	74.95	17 11	16.36	8 2	71.56	26 46
14.95	7	72.77	41 34	15.65	8 3	71.70	57 12	16.36	12	73.90	6 38	14.56	29	78.02	19 48	13.57	9	73.35	23 50
16.17	14	74.33	49 19	14.95	5	72.16	52 47	16.17	23	76.67	4 00	16.36	30	78.34	11 42	13.99	18	75.45	26 35
14.47	16	74.83	40 45	12.90	7	72.65	51 25	15.80	25	77.09	6 45	16.02	40	80.68	10 23	12.90	28	77.84	22 21
14.79	23	76.56	41 48	14.33	18	75.27	53 14	13.41	31	78.47	2 22	15.46	43	81.34	10 58	15.80	32	78.80	25 56
15.52	23	76.59	42 15	15.87	23	76.64	56 13	12.14	34	79.12	9 29	14.65	52	83.71	14 11	15.05	33	79.06	28 40
16.17	28	77.87	42 59	15.87	29	78.03	58 58	16.36	35	79.47	8 24	15.46	53	83.75	18 10	12.51	44	81.68	26 38
16.17	32	78.60	43 55	14.24	30	78.16	59 46	13.65	36	79.77	0 17	12.71	54	84.20	15 26	16.36	46	82.29	24 09
13.61	36	79.80	49 54	15.80	30	78.21	58 36	15.33	37	79.85	1 29	16.36	55	84.30	18 19	16.36	49	82.78	22 35
11.33	38	80.10	40 54	15.52	44	81.56	51 57	15.65	42	81.23	7 39	16.36	59	85.26	13 02	14.42	51	83.32	28 48
14.47	42	81.19	49 42	16.36	51	83.22	59 22	12.00	44	81.54	0 32	12.63	9 0	85.46	10 20	15.87	51	83.47	25 58
14.42	43	81.39	45 43	15.65	54	84.00	59 26	14.89	45	81.94	5 50	15.16	1	85.68	18 33	13.99	54	84.02	27 09
15.80	44	81.59	41 27	16.02	55	84.22	56 41	14.20	50	83.12	3 07	15.46	3	86.30	16 51	14.33	55	84.28	26 23
15.65	47	82.37	42 38	14.65	56	84.61	52 15	15.16	55	84.33	1 34	12.14	7	87.28	18 43	14.95	58	85.05	23 49
16.36	49	82.80	45 37	16.36	9 0	85.49	58 38	16.36	56	84.64	2 06	16.36	8	87.49	19 59	14.47	9 2	85.94	25 32
16.36	51	83.39	47 51	14.16	4	86.58	50 16	15.46	9 2	85.90	5 22	13.82	11	88.25	14 05	16.36	4	86.38	21 29
16.02	58	84.94	48 15	16.36	6	87.00	54 13	16.36	4	86.43	3 16	12.90	12	88.30	18 19	15.46	5	86.77	26 07
16.36	58	84.97	41 39	15.46	13	88.68	54 31	16.36	7	87.30	6 14	16.36	13	88.57	17 50	15.80	17	89.66	21 29
16.36	9 2	85.90	46 29	14.56	17	89.56	55 40	13.82	10	87.94	8 53	15.33	16	89.41	19 17	10.28	20	90.39	29 08
15.33	3	86.18	42 39	14.20	34	93.67	55 51	14.20	20	90.29	3 09	15.65	25	91.44	14 31	15.22	22	90.83	24 11
13.69	5	86.60	44 39	15.33	35	94.04	55 53	14.56	28	92.29	3 48	15.33	30	92.69	12 10	14.89	22	90.89	24 05
14.24	10	87.96	49 36	14.65	41	95.36	56 43	15.33	31	93.02	2 44	15.65	37	94.44	17 29	15.65	23	91.08	29 04
16.17	14	88.76	40 42	14.89	48	97.16	58 10	14.20	39	95.01	2 38	15.46	41	95.35	16 12	15.80	23	91.13	27 50
16.36	17	89.49	41 53	13.61	49	97.41	59 29	15.33	40	95.14	0 14	15.87	42	95.65	12 04	13.78	24	91.25	26 33
15.52	20	90.29	44 57	12.90	10 1	0.20	51 08	15.05	41	95.52	2 13	16.36	47	96.97	11 54	15.27	35	93.98	20 19
16.36	35	93.85	48 45	14.56	3	0.69	57 22	14.89	45	96.41	8 24	16.36	48	97.00	16 20	14.95	41	95.49	28 32
12.71	36	94.08	41 38	15.80	5	1.18	52 35	15.52	48	97.00	2 21	14.65	49	97.24	17 19	15.33	44	96.09	27 01
14.79	36	94.24	46 46	15.65	5	1.27	56 41	16.36	50	97.63	2 14	12.90	58	99.40	10 34	14.95	48	97.08	23 29
16.17	37	94.49	40 19	15.87	6	1.37	53 39	16.36	56	99.06	7 56	14.89	10 5	1.31	14 45	11.58	52	98.13	27 20
15.22	48	97.02	48 06	15.52	6	1.46	51 53	6.82*	10 5	1.30	9 04	13.61	10	2.52	11 00	14.70	53	98.27	24 44
16.36	50	97.61	44 17	14.42	10	2.47	56 29	16.36	10	2.47	8 15	14.11	11	2.58	19 41	16.36	54	98.64	23 35
14.95	59	99.69	46 43	16.02	12	2.89	57 02	15.05	15	3.68	6 31	16.17	13	3.10	10 12	16.36	10 0	99.90	24 57
15.05	10 8	1.94	48 50	16.36	33	7.90	57 14	14.70	24	5.75	2 29	15.87	16	3.93	19 47	15.87	4	0.94	21 36
16.36	14	3.45	47 19	15.22	42	10.14	59 25	16.02	24	5.80	2 45	15.46	27	6.46	15 13	16.36	4	0.95	28 16
16.36	25	5.94	40 16	15.11	45	10.93	59 48	16.36	25	5.93	0 12	16.36	31	7.55	18 24	15.52	9	2.08	25 44
15.22	28	6.68	47 54	14.70	47	11.46	50 34	15.80	34	8.20	0 10	15.22	40	9.63	18 53	16.36	15	3.58	26 03
16.17?	31	7.59	44 48	13.49	49	11.94	58 33	15.52	34	8.27	2 57	16.36	42	10.22	19 47	15.87	16	3.92	29 44
13.90	34	8.12	43 46	15.33	52	12.55	55 43	13.10	48	11.58	0 42	16.36	43	10.40	19 31	15.87	17	4.12	29 07
15.16	39	9.40	47 52	15.46	52	12.62	54 15	15.16	11 8	16.40	1 40	15.87?	53	12.83	10 33	16.02	24	5.75	26 28
15.52	39	9.49	41 19	15.33	54	13.06	50 21	15.65	8	16.52	4 22	15.16	11 11	17.22	14 21	14.24	24	5.82	28 53
15.46	46	11.23	40 48	15.87	55	13.24	54 55	16.02	20	19.30	9 03	14.84	12	17.37	10 14	14.95	37	8.90	25 27
15.87?	55	13.41	40 14	14.79	11 1	14.85	53 16	15.52	21	19.52	7 04	16.17	18	18.83	10 47	16.02	37	8.90	23 42
13.10	58	14.05	46 00	15.33	6	15.99	53 34	16.02	23	20.04	5 53	14.20	18	18.89	17 01	14.65	46	11.18	26 35
16.36	11 2	15.04	41 52	16.36	20	19.32	55 31	16.17	30	21.78	5 13	14.24	26	20.73	19 30	14.79	51	12.39	22 32
15.46	8	16.53	41 13	10.98	24	20.27	51 11	15.33	40	24.19	6 21	14.65	39	23.81	18 53	12.71	51	12.40	29 08
14.11	29	21.58	41 25	15.22	31	22.02	58 30	14.42	52	27.05	0 04	15.33	40	24.23	11 31	16.36	52	12.57	21 01
15.16	46	25.69	44 44	12.51	35	23.04	51 49	13.65	12 5	30.28	0 20	16.36	43	24.82	15 22	11.34	55	13.29	29 44
15.33	12 3	29.66	43 48	14.79	51	26.71	59 44	15.05	8 3	71.85	13 43	16.36	44	25.14	10 42	16.02	59	14.26	20 08
16.17	5	30.18	47 42	13.90	12 3	29.79	52 24	15.46	13	74.13	18 11	15.87	46	25.53	16 18	15.22	11 4	15.42	29 26
14.79	5	30.20	42 45	15.46	5	30.26	57 58	13.82	14	74.50	10 15	14.79	12 0	28.82	15 20	15.22	5	15.57	29 35

25 prec. + 85 sec. + 3′ 52″.

4^h Area 72. $+15°$

251—270				271—290				291—310				311—321			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.36	11 9	16.63	21 32	15.65	8 17	75.30	31 15	15.22	10 0	0.07	34 36	16.17	11 24	20.32	31 08
10.50*	14	17.87	24 07	15.16	19	75.72	39 33	16.36	2	0.50	34 58	13.61	24	20.33	38 30
14.70	23	20.02	24 54	13.99	27	77.55	32 24	16.17	2	0.50	35 28	13.69	27	20.96	33 45
14.79	24	20.13	21 13	14.89	40	80.64	38 41	15.87	6	1.41	35 33	14.95	31	21.97	35 19
11.97	26	20.78	28 59	15.22	43	81.35	39 34	13.49	7	1.65	33 52	15.52	34	22.70	34 03
13.41	27	21.01	21 14	12.05	49	82.95	37 07	12.90	10	2.29	31 40	16.02	37	23.44	30 40
14.42	29	21.45	23 39	16.02	52	83.51	32 55	10.04*	16	3.93	33 59	12.51	40	23 96	36 29
14.70	34	22.54	20 18	16.36	56	84.66	30 18	14.70	19	4.63	33 25	15.22	42	24.56	31 19
16.36	35	22.94	29 54	16.36	9 1	85.71	34 38	14.47	19	4.65	31 22	15.16	54	27.53	37 13
13.49	41	24.30	24 48	14.42	4	86.51	38 45	14.79	22	5.18	32 59	15.16	58	28.43	39 02
13.29	46	25.51	22 43	16.17	9	87.80	32 13	14.42	37	8.94	32 05	13.82:	12 6	30.42	33 55
13.10	48	26.03	21 51	14.70	16	89.42	30 48	15.46	39	9.31	35 03				
14.95	52	27.00	23 59	16.36	17	89.76	31 39	15.52	47	11.43	34 58				
16.36	56	27.98	26 57	15.46	19	90.08	32 01	10.98	49	11.73	36 28				
15.87	58	28.45	21 33	13.61	22	90.80	32 26	15.33	56	13.54	38 29				
15.80	12 0	28.84	21 39	14.95	26	91.76	34 45	14.95	11 2	14.81	38 40				
12.32	2	29.36	26 12	13.29	30	92.88	33 49	15.16	4	15.39	36 10				
16.36	4	29.85	28 26	16.17	50	97.69	30 44	15.46	11	17.02	34 27				
15.87	8 0	71.09	37 34	16.36	53	98.35	35 21	14.42	16	18.31	31 37				
13.10	7	72.72	31 43	15.87	55	98.85	32 50	14.47	19	18.92	32 57				

25 prec. + 85 sec. + 3′ 50″.

5^h Area 73. Centre for 1900: $5^h\ 14^m + 15°\ 0'$. $+14°$

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.79	13 33	93.39	40 29	15.60	14 6	1.47	40 39	15.79	14 50	12.11	43 34	15.44	15 16	18.26	43 46	14.56	15 55	27.80	49 58
15.79	35	93.86	43 35	13.36	9	2.11	41 19	15.15	51	12.23	47 12	15.33	17	18.55	47 18	14.87	56	27.92	45 40
15.79	36	94.20	47 03	15.33	14	3.29	45 53	15.60	51	12.26	42 39	15.79	20	19.35	40 51	14.26	57	28.36	41 42
15.79	36	94.30	45 48	14.77	16	3.88	48 35	12.17	52	12.45	49 17	15.44	20	19.40	46 58	15.79	16 2	29.56	47 27
15.79	43	95.81	40 09	13.97	17	4.08	46 55	14.98	53	12.82	49 59	14.98	21	19.50	44 50	15.79	2	29.58	47 05
11.15	46	96.71	45 22	15.79	18	4.32	49 33	15.79	54	13.05	47 23	13.97	21	19.57	42 43	13.97	3	29.71	46 16
15.79	47	96.88	43 09	14.87	21	5.06	42 00	14.02	55	13.19	41 06	14.11	21	19.58	48 02	13.16	4	29.90	45 38
15.79	47	96.88	44 26	14.11	22	5.38	46 02	15.79	55	13.25	43 06	14.45	30	21.85	40 57	15.79	4	29.96	42 08
15.27	48	97.12	48 11	13.16	25	6.11	46 19	15.15	55	13.41	46 24	15.79	30	21.88	47 38	11.38	8	31.02	48 50
14.45	49	97.38	45 05	13.44	25	6.14	45 41	15.79	56	13.51	45 49	15.15	34	22.64	43 52	15.60	9	31.22	49 54
13.79	50	97.47	42 24	15.04	27	6.43	44 35	13.88	58	13.91	43 18	15.15	34	22.80	44 31	15.79	10	31.37	46 08
15.27	50	97.64	41 09	14.71	29	7.08	44 08	15.79	58	13.97	45 04	15.27	35	22.97	46 56	15.79	12	31.79	46 07
14.98	52	98.07	45 28	14.21	37	8.90	42 21	11.49	58	14.05	44 19	14.35	40	24.08	48 14	14.45	13	32.21	49 31
15.27	53	98.33	48 12	15.27	38	9.10	43 55	15.79	15 0	14.51	45 06	15.27	41	24.48	46 55	14.71	14	32.29	44 35
14.51	54	98.50	49 19	14.26	40	9.67	40 18	15.79	2	15.05	49 35	11.85	44	25.14	41 12	13.57	14	32.45	43 38
14.77	57	99.18	48 10	14.45	41	9.97	47 23	14.51	5	15.77	40 45	14.51	50	26.55	44 25	13.16	15	32.55	45 42
15.15	59	99.80	42 50	14.71	42	10.09	48 56	12.51	7	16.10	43 52	15.79	51	26.85	42 20	14.26	16	32.89	44 36
14.87	14 4	0.96	41 28	15.79	45	10.82	43 27	13.16	9	16.77	40 50	14.98	51	26.92	41 35	13.04	13 33	93.43	56 34
11.02	5	1.16	45 38	15.79	47	11.28	47 13	13.79	14	17.81	44 06	15.60	53	27.43	47 41	14.61	37	94.37	51 26
15.79	5	1.23	48 04	13.04	47	11.42	41 29	13.04	14	17.93	44 00	15.79	54	27.56	47 57	15.60	38	94.71	53 11

25 prec. + 85 sec. + 1′ 38″.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	a	x	y+60'	Int. magn.	a	x	y+60' / y+0'	Int. magn.	a	x	y+0'	Int. magn.	a	x	y+0'	Int. magn.	a	x	y+0'
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.79	13 42	95.63	56 27	14.61	15 22	19.84	58 26	14.26	14 5	1.21	2 01	15.60	15 34	22.65	8 39	14.21	14 12	2.96	13 03
14.26	43	95.86	51 14	15.79	24	20.20	57 45	12.68	6	1.54	4 43	15.79	35	22.88	9 47	14.87	14	3.26	11 13
15.60	44	96.25	54 14	13.97	24	20.38	59 00	13.75	8	1.96	1 42	14.35	39	24.01	6 26	15.79	15	3.52	12 36
12.93	47	96.91	56 21	15.44	27	20.94	51 13	13.97	10	2.39	0 01	15.60	40	24.05	2 21	15.27	16	3.77	10 39
15.51	49	97.44	50 31	12.51	27	20.99	59 36	15.15	10	2.48	4 31	15.33	41	24.34	9 28	13.88	16	3.93	12 20
14.51	50	97.69	54 43	11.38	29	21.53	57 55	14.51	12	2.85	1 16	15.79	45	25.40	5 21	15.44	21	4.95	11 07
14.30	54	98.61	50 02	15.04	29	21.58	52 56	15.79	13	3.16	5 28	15.79	47	25.90	8 10	15.60	21	5.05	10 50
15.15	58	99.54	50 42	15.79	32	22.18	52 54	12.17	16	3.76	1 56	15.79	50	26.65	3 23	14.87	21	5.16	13 09
15.79	14 1	0.18	51 42	15.79	33	22.42	50 46	15.79	17	4.09	6 40	14.35	50	26.65	1 44	14.45	23	5.55	17 20
12.51	2	0.48	52 18	15.44	34	22.60	51 08	12.68	17	4.16	5 45	13.53	56	28.10	7 15	15.79	25	5.95	10 36
14.11	3	0.74	57 15	15.79	36	23.10	58 51	15.60	18	4.32	9 38	15.60	16 0	28.88	6 19	13.16	27	6.58	10 54
12.34	6	1.46	54 49	9.67*	39	23.99	50 39	15.60	19	4.69	4 26	13.16	5	30.21	3 29	15.79	28	6.79	17 01
14.98	9	2.08	59 50	15.44	42	24.59	56 02	15.79	25	5.97	8 19	15.60	9	31.14	7 01	15.79	30	7.26	14 33
13.44	13	3.25	54 21	15.79	42	24.72	56 36	13.53	28	6.75	0 43	13.53	10	31.27	6 46	15.79	31	7.47	12 01
15.79	14	3.39	54 43	15.79	43	24.89	51 13	14.11	28	6.82	9 34	15.79	10	31.34	2 34	15.79	32	7.84	11 11
15.79	17	4.05	55 49	15.79	44	25.16	55 28	14.51	30	7.22	5 05	15.79	13	32.16	7 02	12.68	38	9.17	18 54
15.79	20	4.89	55 51	15.33	45	25.34	58 50	14.11	32	7.79	2 05	15.79	16	32.76	5 12	15.79	39	9.34	15 55
15.60	26	6.19	59 42	15.60	46	25.58	54 57	14.02	33	7.94	5 01	14.51	16	32.88	5 35	15.60	41	9.98	12 03
15.44	30	7.15	55 42	13.79	49	26.33	56 50	13.75	37	8.94	2 54	14.87	16	32.89	3 29	15.27	42	10.15	14 54
14.11	31	7.41	51 45	14.21	52	27.00	54 44	14.77	39	9.47	6 00	15.79?	13 31	93.10	12 36	15.79	43	10.27	12 22
15.79	31	7.50	51 05	15.79	54	27.58	53 45	14.71	40	9.74	8 12	15.33	35	94.06	17 05	15.79	44	10.69	14 18
13.97	32	7.69	52 16	15.04	56	28.12	59 19	15.79	40	9.76	8 30	14.26	35	94.07	16 39	15.79	51	12.34	12 10
15.79	35	8.45	57 51	15.04	58	28.47	53 13	13.79	42	10.09	4 47	15.79	37	94.37	19 06	13.93	53	12.81	10 27
15.60	35	8.53	55 42	15.04	58	28.60	51 01	15.79	42	10.12	2 04	13.16	40	95.19	13 37	14.26	54	12.93	16 49
15.79	36	8.79	53 29	14.71	59	28.77	59 23	12.34	45	10.83	2 37	11.23	41	95.37	10 46	15.44	54	13.06	19 51
15.79	37	8.84	52 52	15.04	16 2	29.42	56 31	15.79	45	10.97	5 39	14.21	42	95.65	15 57	14.82	54	13.13	10 18
15.79	38	9.11	52 44	15.60	5	30.30	53 11	13.04	46	11.10	6 21	15.44	42	95.74	14 20	14.21	55	13.34	16 07
14.35	38	9.22	56 55	13.97	6	30.34	59 42	15.60	46	11.20	3 32	12.68	43	95.85	10 39	14.02	57	13.72	10 46
14.77	39	9.41	54 41	14.11	6	30.50	50 04	15.79	50	12.16	3 37	15.44	46	96.52	16 11	15.44	57	13.79	14 59
14.61	40	9.56	50 08	14.77	7	30.62	53 05	15.79	54	13.00	2 46	15.33	53	98.39	18 25	15.79	58	14.05	13 09
15.15	40	9.73	59 35	14.98	8	30.83	53 38	13.97	58	13.98	1 11	13.88	55	98.77	12 54	15.79	59	14.34	19 44
15.79	44	10.55	50 16	15.60	10	31.33	58 59	14.16	58	14.08	0 18	14.71	58	99.53	16 00	15.79	15 0	14.59	13 58
13.75	46	11.00	52 23	15.33	11	31.72	56 44	15.79	15 2	14.90	8 41	13.53	58	99.53	16 49	15.79	1	14.82	10 22
14.51	46	11.04	58 42	15.60	12	31.91	54 31	14.35	2	14.92	2 30	12.17	59	99.82	19 17	13.97	2	15.01	15 57
15.44	48	11.71	56 12	15.79	12	32.00	52 32	15.79	3	15.24	2 12	14,02	14 0	99.94	18 03	15.33	4	15.32	14 48
14.26	48	11.71	52 55	15.79	16	32.82	59 19	15.60	3	15.30	7 24	15.79	0	0.10	10 32	15.27	4	15.35	18 29
15.79	49	11.90	59 32	15.79	13 33	93.58	4 52	14.87	6	15.83	1 33	15.15	2	0.56	10 24	15.79	5	15.59	10 01
7.94*	53	12.87	57 29	15.79	34	93.70	0 00	15.79	6	15.84	2 52	12.68	5	1.25	12 08	15.04	6	15.97	15 16
15.44	54	12.99	53 29	15.15	36	94.28	2 45	15.79	6	15.93	4 21	13.04	5	1.27	12 14	12.68	6	15.97	11 27
15.79	59	14.18	56 32	15.04	38	94.69	5 00	15.44	7	16.12	5 52	14.21	6	1.47	16 31	15.44	8	16.29	13 34
15.60	59	14.31	54 35	14.61	41	95.42	3 20	15.79	9	16.57	9 37	15.79	7	1.64	15 38	14.45	9	16.73	14 49
14.87	15 2	15.02	55 43	12.51	43	95.88	8 02	12.97	9	16.64	4 15	15.79	8	1.95	14 01	15.79	12	17.46	19 44
14.35	4	15.54	57 25	15.79	45	96.47	3 00	15.04	12	17.36	4 27	15.79	9	2.22	12 09	13.75	14	17.97	14 37
15.79	6	15.97	59 40	14.51	49	97.38	9 08	15.79	20	19.32	0 06	15.04	9	2.24	18 41	14.87	15	18.00	18 15
15.60	10	16.97	55 45	15.33	49	97.41	8 05	14.77	20	19.34	4 19	13.24	11	2.54	14 18	15.44	16	18.32	15 43
15.79	12	17.51	57 22	14.61	50	97.48	4 18	13.66	24	20.23	7 19	15.44	11	2.54	12 09	15.79	17	18.51	12 54
14.26	13	17.67	59 07	15.79	52	98.17	4 57	15.79	24	20.25	7 49	15.79	11	2.70	17 00	14.87	28	21.16	10 10
15.79	14	17.98	51 51	15.33	53	98.41	4 10	14.26	26	20.73	6 21	15.79	11	2.76	17 57	13.88	30	21.68	14 53
14.27	15	18.09	56 07	13.88	57	99.21	0 33	13.44	29	21.40	5 48	14.35	12	2.81	19 26	15.79	33	22.46	10 01
14.45	17	18.71	53 51	15.27	14 1	0.32	1 03	14.77	29	21.54	4 37	15.79	12	2.93	19 45	14.77	40	24.12	14 47

25 prec. + 86 sec. + 1′ 38″.

5^h Area 73. $+15°$

351—360				361—370				371—373			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.60	15 42	24.72	13 38	14.02	15 51	26.76	14 35	14.71	16 12	31.86	10 46
14.26	42	24.72	12 47	15.79	53	27.30	10 37	12.51	15	32.53	10 22
11.85	43	24.76	10 22	14.77	54	27.48	16 48	14.11	16	32.92	18 44
14.45	43	24.79	11 10	14.26	56	27.88	13 19				
14.87	43	24.89	13 50	15.79	56	28.03	13 59				
10.28	44	24.98	18 41	14.77	16 1	29.09	17 24				
14.61	45	25.31	13 50	14.98	2	29.34	14 31				
14.98	48	26.13	18 25	15.79	3	29.67	15 28				
15.44	49	26.26	17 11	15.60	10	31.41	19 34				
13.16	49	26.28	18 16	13.97	11	31.60	16 28				

25 prec. + 86 sec. + 1′ 36″.

6^h Area 74. Centre for 1900: $6^h\ 15^m + 15°\ 10'$. $+14°$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.45	13 55	84.37	57 16	12.84	14 44	96.13	56 01	15.79	15 17	4.10	52 20	14.11	15 53	12.88	54 39	14.68	16 17	18.54	52 00
15.79	56	84.63	57 12	15.79	45	96.31	52 38	14.68	17	4.21	57 27	15.09	56	13.64	55 12	15.03	17	18.55	55 51
15.03	59	85.35	51 39	14.54	45	96.49	55 53	14.78	18	4.39	57 37	14.44	57	13.87	51 25	15.79	17	18.64	54 37
13.53	14 1	85.70	56 22	15.79	46	96.59	51 55	15.79	20	4.75	51 43	14.59	57	13.87	57 29	15.79	18	18.96	50 36
15.03	2	85.89	51 01	15.79	46	96.66	52 45	15.79	22	5.30	50 47	15.45	58	13.97	54 07	15.79	21	19.55	50 42
15.19	2	86.00	56 13	14.83	47	96.91	58 48	13.12	24	5.87	54 55	14.44	58	13.98	52 13	13.32	22	19.70	55 55
14.11	2	86.01	59 08	14.20	47	96.93	55 39	15.45	27	6.43	55 43	15.79	58	14.01	51 30	13.75	22	19.74	57 27
15.45	3	86.24	57 43	14.59	49	97.23	59 44	15.19	27	6.50	51 24	15.60	16 0	14.38	50 15	12.80	22	19.85	51 46
14.59	4	86.56	51 31	15.79	49	97.44	53 46	15.79	27	6.61	52 02	14.78	0	14.52	54 09	15.79	23	19.95	57 29
15.79	6	86.84	59 14	14.35	49	97.45	52 00	15.60	30	7.25	52 57	14.54	4	15.45	55 33	15.79	23	20.10	50 43
15.60	7	87.14	56 55	13.88	50	97.50	52 48	14.16	31	7.47	59 41	13.66	4	15.47	50 31	12.92	26	20.65	56 18
12.92	7	87.26	50 09	15.79	50	97.51	55 57	15.60	34	8.12	50 01	15.79	4	15.55	54 58	15.19	26	20.81	58 17
15.79	8	87.33	59 50	13.20	51	97.83	52 07	13.41	35	8.56	54 43	15.45	5	15.68	50 59	15.09	27	21.07	56 55
14.93	8	87.56	53 27	14.93	52	97.99	53 14	15.79	38	9.14	51 21	15.79	6	15.97	57 34	15.45	28	21.15	56 40
15.79	11	88.23	55 08	15.79	52	98.16	58 20	14.68	38	9.22	53 21	12.92	7	16.09	54 47	13.75	29	21.55	53 08
14.20	15	89.23	58 05	15.09	53	98.36	54 45	15.35	38	9.29	51 17	15.79	7	16.12	51 54	15.79	29	21.57	52 43
15.45	18	89.88	56 45	15.45	54	98.47	54 00	13.45	39	9.43	54 27	13.20	7	16.16	55 23	14.78	30	21.62	51 24
14.54	20	90.33	51 01	15.79	56	98.92	56 16	14.30	39	9.45	52 28	14.59	8	16.50	51 57	15.79	30	21.66	57 06
15.35	20	90.37	55 18	14.11	57	99.28	56 01	15.19	39	9.49	51 38	14.44	9	16.69	54 37	14.35	31	21.89	57 57
15.79	21	90.58	54 21	15.79	58	99.57	52 47	14.83	41	9.86	55 29	13.53	9	16.76	53 37	15.19	31	22.03	55 05
14.20	23	91.15	53 27	15.79	15 0	0.02	54 17	15.19	43	10.46	51 02	15.60	9	16.78	52 53	14.20	32	22.13	50 26
15.03	27	92.07	58 35	15.79	2	0.41	50 58	14.11	44	10.65	55 25	15.35	10	16.93	58 46	15.45	32	22.18	56 46
9.27*	29	92.50	50 42	13.66	3	0.73	57 17	14.78	44	10.68	50 56	14.68	11	17.20	52 41	15.79	32	22.26	52 42
15.03	30	92.70	51 18	9.89*	6	1.48	58 07	14.68	47	11.28	51 05	14.06	12	17.34	58 45	14.30	33	22.34	54 56
13.97	32	93.14	54 27	14.20	9	2.21	51 27	12.27	48	11.48	59 30	15.79	14	17.83	53 09	15.45	33	22.44	59 56
15.79	37	94.39	50 32	14.78	12	2.96	55 28	11.36	49	11.73	53 28	14.59	15	18.02	54 04	15.19	34	22.69	53 10
15.60	37	94.47	59 03	13.66	14	3.26	56 16	15.79	49	11.89	50 14	15.79	15	18.15	58 41	15.45	34	22.77	50 47
15.79	37	94.55	58 49	14.35	14	3.38	52 18	12.64	50	11.98	54 10	14.83	15	18.20	55 40	11.98	34	22.82	53 41
13.24	38	94.57	51 11	15.79	15	3.59	50 57	12.64	50	12.07	56 19	14.59	16	18.28	53 17	14.78	35	22.86	56 17
15.79	42	95.60	57 11	14.59	15	3.61	50 40	15.79	51	12.43	50 43	14.93	16	18.45	56 23	8.61	37	23.32	54 48

25 prec. + 86 sec. — 0′ 34″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	$\frac{y+70'}{y+10'}$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.24	16 37	23.54	52 16	13.88	14 54	98.62	1 46	15.19	15 56	13.39	0 15	13.62	13 55	84.29	18 49	14.73	14 54	98.54	10 04
14.20	38	23.63	50 00	15.60	57	99.38	0 12	15.79	57	13.83	3 24	15.79	56	84.62	11 12	13.97	55	98.90	16 46
13.53	38	23.73	52 08	15.79	15 1	0.23	9 26	14.68	58	14.01	9 08	15.45	57	84.78	13 54	11.56	58	99.46	17 03
15.79	38	23.79	58 06	14.78	6	1.44	2 27	13.97	58	14.08	4 43	14.68	14 0	85.42	16 08	12.72	15 0	99.97	17 13
15.79	13 55	84.28	3 53	13.88	6	1.49	5 40	15.79	59	14.21	9 24	14.30	0	85.46	15 46	15.79	5	1.10	11 24
14.93	57	84.69	0 57	15.19	7	1.66	6 58	14.78	16 1	14.72	9 03	15.79	0	85.57	10 55	13.12	5	1.17	17 13
15.79	59	85.28	2 07	13.66	11	2.77	7 44	15.03	1	14.76	4 20	13.84	1	85.88	12 04	14.93	6	1.45	16 14
14.11?	14 3	86.21	9 44	15.79	12	2.91	0 57	15.09	2	15.02	1 57	13.84	2	86.03	11 22	15.09	8	1.97	10 56
15.45	3	86.26	5 39	14.59	13	3.04	8 25	15.79	3	15.13	8 29	14.11	5	86.81	17 46	13.24	9	2.22	13 24
13.04	4	86.56	5 54	14.93	13	3.06	9 42	15.79	4	15.34	4 33	15.09	5	86.82	19 02	13.45	10	2.39	14 42
15.03	6	86.96	9 02	8.86*	15	3.56	5 50	15.79	5	15.69	6 19	14.78	7	87.19	10 44	14.59	11	2.56	17 13
15.45	6	86.97	5 41	15.60	18	4.31	7 36	15.29	7	16.24	8 02	15.19	7	87.30	17 46	14.78	11	2.63	19 27
14.78	6	87.06	1 54	15.09	18	4.46	1 40	15.79	11	17.24	4 35	15.35	8	87.46	10 34	15.79	11	2.64	16 33
15.29	8	87.57	1 25	15.79	21	5.10	6 51	11.80	12	17.37	4 37	15.14	8	87.52	10 16	13.53	12	2.84	13 43
15.79	10	87.89	1 05	15.60	24	5.80	9 59	11.66	13	17.57	8 18	13.97	9	87.72	18 39	14.93	12	2.95	13 11
15.40	10	88.02	9 44	14.83	26	6.18	6 55	15.79	13	17.59	3 45	15.60	10	87.83	10 36	14.93	13	3.13	12 41
15.60	11	88.27	3 35	15.29	26	6.24	5 43	11.98	13	17.63	4 27	14.35	10	87.98	10 20	12.72	13	3.16	18 05
14.44	14	88.86	2 47	14.44	26	6.27	8 12	13.62	14	17.74	1 46	15.60	11	88.19	10 56	15.79	14	3.28	19 19
15.03	16	89.37	8 19	13.97	26	6.31	8 33	14.20	14	17.83	8 07	13.84	11	88.21	16 41	12.72	16	3.81	17 36
15.45	16	89.44	1 38	15.79	27	6.48	4 31	11.80	16	18.26	6 08	13.32	13	88.56	19 02	15.60	16	3.90	16 15
12.16	17	89.64	4 12	15.29	28	6.64	4 26	13.66	16	18.45	2 41	14.93	13	88.63	17 48	14.93	16	3.95	13 12
14.20	18	89.97	0 59	11.98	31	7.50	5 51	13.97	18	18.93	8 30	14.54	14	88.78	15 08	15.45	16	3.97	16 50
14.78	21	90.53	7 56	14.44	32	7.63	5 25	14.93	19	19.10	4 35	15.60	19	90.20	14 32	12.72	17	4.05	14 08
13.45	21	90.54	3 44	15.03	32	7.83	9 38	14.20	21	19.51	9 03	14.93	21	90.52	14 36	13.45 :	18	4.33	13 45
13.66	22	90.90	8 15	15.19	33	7.97	7 31	14.78	21	19.52	0 05	15.14	22	90.73	19 32	15.09	18	4.37	17 20
13.88	27	91.99	3 15	13.53	33	8.00	4 18	15.79	22	19.79	0 27	13.12	23	91.05	16 06	15.79	18	4.37	14 45
14.83	28	92.38	8 26	10.97	33	8.04	7 10	15.35	22	19.81	9 25	15.45	26	91.80	19 36	15.29	20	4.74	15 56
13.97	30	92.69	7 11	13.75	34	8.18	5 37	14.35	23	20.15	5 15	14.35	26	91.82	15 02	15.79	21	4.95	12 22
15.03	31	92.92	9 35	11.44	34	8.30	8 07	12.34	24	20.17	8 37	15.09	26	91.85	12 09	12.84	21	5.04	14 45
10.30	31	92.99	4 26	12.92	37	8.93	5 38	14.35	24	20.38	0 06	14.93	27	91.97	11 14	15.79	21	5.06	11 07
14.35	32	93.34	1 40	14.59	37	8.97	1 40	14.93	25	20.49	0 40	14.20	27	92.15	15 34	13.53	21	5.15	11 53
14.20	33	93.55	4 11	15.79	38	9.15	9 07	15.45	26	20.65	2 37	15.79	29	92.48	16 00	14.44	22	5.27	10 46
14.30	33	93.58	6 49	15.79	39	9.42	3 04	15.79	27	20.91	3 45	15.14	31	93.10	19 36	14.20	22	5.33	12 12
14.44	35	94.05	8 33	14.20	40	9.68	9 42	12.64	29	21.42	6 01	15.09	32	93.25	12 41	11.13	23	5.44	15 26
14.68	36	94.27	2 36	15.79	41	9.86	1 04	15.45	29	21.43	7 30	15.29	32	93.28	16 02	15.29	23	5.54	11 03
15.45	38	94.57	5 45	11.56	41	9.86	5 00	14.83	31	21.95	0 09	12.16	33	93.39	16 12	14.11	23	5.61	10 55
15.29	38	94.72	3 48	14.83	41	9.98	3 55	15.79	32	22.16	1 34	14.68	33	93.52	10 29	15.60	24	5.83	11 22
15.79	39	94.88	0 19	15.45	43	10.38	1 43	14.83	32	22.23	7 36	15.79	34	93.81	15 35	14.83	25	6.08	12 08
15.29	40	95.22	2 45	15.79	44	10.59	6 44	15.79	32	22.25	3 22	12.34	35	94.07	17 22	15.45	26	6.33	17 17
14.06	41	95.31	5 17	15.60	46	11.07	8 23	15.79	35	22.83	5 47	15.79	38	94.62	12 24	15.79	26	6.34	13 39
14.93	43	95.98	8 02	13.53	48	11.58	7 28	15.60	35	22.98	7 13	13.12	39	94.86	13 16	15.79	27	6.63	16 11
15.03	44	96.08	5 53	11.98	48	11.71	1 37	14.68	35	23.03	3 44	13.75	41	95.35	10 46	13.88	28	6.83	19 38
12.64	45	96.32	0 03	15.79	50	11.99	0 55	15.79	36	23.16	1 30	15.79	41	95.50	13 20	14.54	29	7.07	15 00
14.35	49	97.24	8 06	14.83	50	12.13	9 07	15.79	36	23.23	0 51	15.79	41	95.52	11 51	14.93	30	7.34	11 35
15.45	49	97.34	4 35	15.45	52	12.52	9 21	14.68	37	23.35	1 27	14.93	45	96.40	19 14	15.60	33	7.92	15 47
13.41	49	97.41	6 51	15.79	53	12.79	1 42	14.20	38	23.66	5 33	15.03	47	96.92	19 50	14.68	34	8.12	14 01
14.78	51	97.85	7 05	12.53	54	13.02	4 16	15.79	38	23.74	2 42	15.03	47	96.92	17 22	14.83	35	8.51	15 42
11.36	52	98.15	9 29	14.59	55	13.27	7 38	15.79	39	23.79	3 01	14.54	49	97.31	18 55	15.09	36	8.71	19 37
15.09	53	98.25	6 43	15.79	55	13.31	8 33	14.93	13 54	84.16	13 15	14.78	49	97.34	19 13	14.06	37	9.02	18 10
14.54	54	98.47	1 56	14.44	55	13.32	9 25	15.79	55	84.21	12 05	15.03	51	97.84	16 41	14.06	38	9.07	10 22

25 prec. + 86 sec. — 0′ 33″.

401—450				451—500				501—550				551—600				601—639			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	'	' ″		m s	'	' ″		m s	'	' ″		m s	'	' ″		m s	'	' ″
14.54	15 38	9.08	11 33	15.19	16 15	17.98	10 57	12.53	14 17	89.72	25 53	15.03	15 16	3.77	25 17	14.59	16 0	14.44	22 45
15.45	39	9.40	18 25	14.78	16	18.30	11 44	15.79	19	90.23	23 07	15.29	16	3.94	28 40	13.97	0	14.48	22 31
14.68	40	9.67	11 48	15.79	18	18.76	14 51	15.79	20	90.32	23 42	12.72	18	4.24	27 58	14.78	1	14.81	26 07
15.03	42	10.24	19 31	15.45	18	18.90	17 40	13.84	22	90.72	22 29	15.09	18	4.27	29 56	15.79	2	15.05	22 09
15.09	43	10.34	13 21	14.30	18	18.90	18 39	14.83	22	90.72	26 01	14.64	19	4.47	20 30	14.78	3	15.25	23 09
13.84	43	10.46	15 49	14.93	19	19.06	16 27	14.30	22	90.79	25 04	15.35	19	4.49	23 39	14.68	4	15.50	26 44
11.51	44	10.56	15 38	14.35	21	19.63	18 49	11.98	24	91.30	25 00	15.79	20	4.72	29 35	15.79	4	15.52	27 24
15.79	46	11.09	16 51	13.24	21	19.64	12 21	14.59	26	91.76	22 21	14.44	20	4.83	22 39	15.79	5	15.71	29 00
13.32	46	11.20	17 30	15.09	22	19.87	13 06	15.03	27	92.02	27 14	15.79	21	5.07	24 33	15.29	9	16.65	22 59
13.41	47	11.44	15 33	14.59	23	20.04	15 09	13.32	27	92.13	26 56	13.97	25	5.99	25 36	15.03	9	16.72	20 25
15.29	49	11.81	19 04	14.83	24	20.30	14 42	15.45	28	92.41	20 49	15.45	26	6.15	29 06	14.11	11	17.16	28 55
15.45	49	11.93	15 11	15.45	25	20.44	19 41	14.44	29	92.52	23 10	15.60	26	6.19	29 37	13.53	12	17.41	24 20
15.60	50	11.99	18 19	14.59	26	20.77	11 48	15.79	29	92.60	20 32	15.79	27	6.44	27 34	15.60	14	17.95	29 01
13.84	50	11.99	16 29	15.19	26	20.79	13 06	13.88	32	93.28	20 51	13.75	28	6.81	24 58	14.30	15	18.13	23 41
14.93	50	12.11	14 13	15.29	26	20.87	12 35	15.19	34	93.74	22 30	14.44	28	6.87	25 15	15.60	16	18.30	29 18
15.35	50	12.12	11 53	15.45	28	21.21	18 38	13.41	35	93.95	27 50	14.93	29	6.96	23 11	15.60	16	18.34	23 49
15.09	51	12.35	13 04	14.78	28	21.25	12 54	15.79	35	94.02	28 46	15.79	31	7.37	27 41	15.60	17	18.45	25 12
15.79	52	12.57	12 53	15.03	28	21.30	15 03	15.79	40	95.29	26 54	15.79	31	7.41	28 31	14.30	17	18.53	24 32
15.79	54	13.02	12 32	15.79	29	21.39	18 33	12.92	42	95.54	25 51	14.68	31	7.41	20 57	14.93	17	18.55	22 49
15.35	55	13.17	12 10	13.97	29	21.44	18 12	15.79	42	95.54	20 00	11.51	32	7.66	22 09	14.44	19	19.03	28 46
13.41	56	13.52	13 24	14.83	29	21.53	19 46	15.79	42	95.54	28 02	15.79	33	7.95	27 55	15.35	19	19.09	21 18
14.93	56	13.55	13 09	15.79	31	21.84	17 01	15.35	43	95.95	28 17	15.79	34	8.23	22 44	14.11	20	19.33	25 07
11.98	57	13.79	18 33	15.79	32	22.14	18 00	15.45	44	96.08	22 39	14.59	35	8.36	29 34	15.79	23	19.95	27 57
15.79	58	13.87	14 16	13.04	32	22.28	12 24	14.93	48	97.09	25 50	14.35	36	8.59	25 12	14.11	25	20.43	22 55
15.79	58	14.02	19 09	14.68	33	22.34	19 59	15.60	50	97.49	25 21	14.83	36	8.66	25 30	15.19	25	20.47	24 03
14.93	58	14.04	11 03	15.60	35	22.96	12 48	13.32	51	97.91	25 20	11.91	38	9.16	20 19	15.79	26	20.75	21 26
11.98	59	14.18	14 28	14.44	36	23.08	11 15	14.54	54	98.49	29 07	15.35	38	9.16	25 30	14.35	26	20.79	22 04
14.44	59	14.26	16 21	13.53	36	23.23	12 33	15.60	55	98.78	27 33	15.09	39	9.36	22 08	15.03	30	21.69	23 47
13.97	16 0	14.59	15 27	13.12	37	23.43	13 29	15.60	55	98.83	23 38	15.19	39	9.39	21 22	13.12	31	21.91	25 10
15.60	1	14.77	11 24	12.72	38	23.63	18 00	11.05	56	98.99	23 25	15.35	40	9.60	22 54	12.45	31	21.92	29 40
15.79	2	15.05	19 07	11.98	38	23.72	18 14	15.09	57	99.25	22 09	14.68	42	10.12	25 03	14.93	31	22.04	24 38
15.79	4	15.41	10 04	15.79	13 54	84.05	26 29	15.45	58	99.57	23 12	13.24	42	10.14	21 04	15.03	32	22.19	26 31
13.20	4	15.43	12 34	15.29	55	84.34	22 31	15.79	59	99.84	24 09	15.45	42	10.21	21 29	15.29	34	22.60	23 21
12.72	5	15.61	10 20	15.29	56	84.54	23 11	15.79	15 1	0.14	28 46	15.09	44	10.57	25 08	15.79	34	22.68	27 26
14.59	5	15.63	11 51	15.60	59	85.36	29 57	13.12	2	0.54	26 49	14.83	45	10.73	23 10	15.79	35	22.80	20 30
15.45	5	15.77	14 24	15.60	14 0	85.44	26 47	13.84	3	0.61	20 46	15.29	45	10.82	21 55	12.34	37	23.30	26 02
14.25	6	15.94	19 50	15.79	2	85.97	22 14	12.16	5	1.15	20 36	11.58	47	11.42	27 52	15.60	37	23.43	28 14
14.30	6	16.00	15 23	13.41	2	86.01	23 56	15.35	6	1.38	21 32	15.03	48	11.65	23 21	15.45	38	23.52	20 47
14.06	7	16.12	10 51	15.60	2	86.14	27 01	13.04	7	1.69	27 42	13.75	49	11.75	26 27	15.60	39	23.86	21 10
15.79	7	16.21	18 39	12.34	3	86.23	23 06	15.79	8	1.88	24 08	15.79	53	12.68	29 38				
11.45	8	16.28	12 08	11.42	4	86.47	29 10	12.53	8	1.96	22 12	10.83	54	12.96	23 28				
14.68	8	16.34	12 42	15.03	5	86.64	21 38	15.29	8	1.98	21 13	15.79	55	13.14	21 10				
14.83	8	16.45	11 09	15.79	5	86.84	24 28	14.93	9	2.19	20 30	14.59	56	13.53	22 12				
15.79	8	16.47	12 31	15.09	7	87.33	22 03	14.68	10	2.35	24 53	14.35	56	13.57	20 16				
14.78	9	16.72	19 50	15.60	8	87.41	22 24	14.30	10	2.36	24 22	14.44	57	13.63	27 00				
15.19	10	16.86	14 26	13.00	9	87.80	20 57	12.72	11	2.68	21 16	14.78	57	13.64	28 41				
15.79	10	16.87	16 32	14.68	13	88.59	20 16	11.24	11	2.69	23 24	14.68	57	13.66	20 02				
15.79	11	17.10	19 33	14.93	13	88.63	26 37	15.79	12	2.88	29 02	15.79	57	13.71	23 46				
15.79	12	17.38	17 21	12.72	14	88.82	24 37	15.45	12	2.88	21 00	9.93	58	13.92	25 11				
14.78	14	17.90	13 22	15.51	15	89.09	20 27	15.79 :	14	3.34	27 41	14.59	59	14.28	25 58				

25 prec. + 86 sec. — 0' 34″.

1—50				51—100				101—150				151—200				201—250			
Int. magr.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$\frac{y+70'}{y+10'}$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.32	13 36	94.16	55 20	15.15	14 23	5.49	53 10	15.21	15 4	15.57	58 19	15.04	15 45	25.32	55 39	15.77	13 36	94.21	6 58
15.15	37	94.44	57 09	15.04	23	5.58	56 55	13.81	5	15.62	54 55	15.21	45	25.38	58 56	14.94	39	94.82	1 10
15.96	38	94.80	52 59	15.15	25	6.11	59 09	15.96	6	16.00	53 17	15.96	45	25.40	52 27	15.77	39	94.89	8 15
14.94	39	94.83	57 17	14.94	26	6.24	59 17	14.23	7	16.18	52 49	12.76	46	25.58	51 08	15.44	40	95.07	5 08
15.96	40	95.05	53 30	15.77	26	6.24	50 39	15.96	8	16.40	59 55	15.77	48	26.06	53 41	15.62	40	95.26	9 27
15.96	40	95.20	51 47	15.62	27	6.55	58 38	14.88	8	16.49	52 09	15.96	49	26.38	59 27	15.77	41	95.37	3 02
14.54	41	95.52	54 10	15.96	28	6.72	52 00	15.04	9	16.75	58 58	15.96	50	26.48	56 48	15.21	42	95.54	8 41
14.68	44	96.20	51 31	15.96	29	6.99	52 09	14.94	9	16.76	55 19	15.32	50	26.49	52 11	15.77	42	95.65	5 48
13.77	46	96.50	53 01	15.50	30	7.14	57 58	15.15	10	16.98	53 53	15.21	53	27.18	58 57	12.76	43	95.89	9 09
14.45	47	96.74	52 57	13.81	31	7.60	50 32	14.41	12	17.35	56 01	12.59	53	27.28	50 07	14.23	43	95.89	3 04
15.15	48	97.07	57 34	15.62	32	7.64	57 25	15.96	13	17.62	52 22	15.15	53	27.32	51 30	12.42	44	96.03	7 52
15.96	48	97.19	51 06	15.96	33	8.07	59 05	15.21	14	17.98	55 30	15.96	53	27.35	58 36	15.21	45	96.40	7 35
14.94	50	97.56	59 08	14.54	35	8.34	52 09	14.19	15	18.09	55 46	15.32	54	27.51	58 27	14.19	45	96.40	4 58
13.19	50	97.62	51 08	14.94	36	8.68	57 55	13.57	15	18.17	56 44	15.62	55	27.68	57 23	14.83	46	96.55	9 46
15.15	51	97.92	59 46	14.10	38	9.26	55 41	13.77	16	18.33	59 17	15.32	55	27.74	55 29	15.62	48	97.18	3 37
15.04	53	98.32	56 11	15.04	39	9.41	50 45	15.62	17	18.53	56 59	15.62	55	27.76	53 47	15.77	48	97.18	2 46
14.64	54	98.54	59 59	15.96	39	9.46	57 56	15.32	17	18.67	51 57	12.86	56	27.93	57 44	15.21	48	97.23	3 07
15.21	58	99.46	52 07	14.54	41	9.84	51 11	15.77	18	18.76	50 30	15.96	56	28.14	50 05	15.15	50	97.51	4 38
15.96	58	99.56	52 28	15.96	43	10.36	58 39	15.77	19	19.08	55 54	15.96	59	28.72	58 59	15.04	50	97.70	3 42
15.77	14 1	0.14	51 45	15.77	43	10.39	56 59	15.96	19	19.14	59 07	15.15	59	28.80	56 37	14.64	51	97.81	0 44
10.88	1	0.14	59 18	15.96	43	10.41	51 42	14.68	20	19.35	56 39	14.23	59	28.82	55 20	15.96	51	97.93	5 27
14.02	2	0.41	50 13	15.96	43	10.44	53 00	15.32	21	19.53	53 25	15.04	16 0	29.00	55 14	15.96	52	97.98	5 06
15.96	3	0.69	52 02	15.50	44	10.58	52 19	13.23	21	19.65	55 22	15.96	0	29.11	52 59	15.96	52	98.16	2 21
15.21	5	1.32	52 57	12.76	44	10.71	53 28	15.32	21	19.67	57 56	15.96	4	29.85	58 28	15.44	52	98.19	6 44
15.96	6	1.38	55 22	15.96	46	11.04	50 13	14.88	22	19.69	56 47	15.96	4	29.96	53 09	8.74*	53	98.21	7 58
15.96	6	1.57	54 56	15.96	47	11.34	53 59	15.96	23	19.96	59 06	14.94	5	30.12	53 30	14.78	56	99.02	5 15
13.98	7	1.70	53 11	13.81	47	11.41	52 38	14.64	23	20.04	54 54	15.21	6	30.36	56 35	15.62	57	99.23	9 35
11.12	8	1.84	58 07	14.94	48	11.53	52 21	14.32	27	20.91	55 26	15.38	6	30.39	59 44	14.68	57	99.32	4 49
14.14	8	1.90	59 50	15.62	49	11.89	51 29	15.96	27	21.10	55 58	14.02	6	30.39	56 19	15.32	14 0	99.92	9 59
14.10	8	1.95	52 19	15.96	50	12.20	51 55	13.69	28	21.16	58 21	15.04	7	30.71	54 13	15.96	0	0.03	2 38
13.89	9	2.10	58 28	11.94	51	12.21	57 42	12.59	28	21.33	58 20	15.04	8	31.00	54 20	15.96	2	0.38	9 07
12.26	9	2.18	56 15	14.88	53	12.74	58 11	15.77	28	21.38	50 23	15.44	9	31.09	57 34	13.11	2	0.58	4 08
15.62	9	2.23	51 22	14.54	53	12.80	51 43	14.64	31	22.04	51 20	14.19	12	31.81	57 56	15.21	5	1.16	0 39
15.50	9	2.28	56 02	14.45	54	13.01	57 41	14.41	32	22.25	57 23	15.21	13	32.09	55 42	15.44	5	1.23	1 34
14.94	11	2.59	57 48	15.77	55	13.21	59 45	15.50	33	22.44	59 02	13.42	13	32.17	58 51	15.96	6	1.46	9 46
14.19	11	2.67	53 39	13.49	55	13.37	55 03	13.04	34	22.59	56 25	14.32	13	32.18	56 51	15.96	6	1.55	9 20
15.96	11	2.68	57 22	13.69	57	13.72	57 50	13.49	36	23.22	56 51	12.93	14	32.32	54 46	15.15	10	2.48	4 16
15.96	12	3.01	56 16	13.89	58	14.05	54 13	14.64	36	23.23	50 46	14.68	14	32.35	55 59	13.89	10	2.50	2 16
12.42	13	3.10	52 17	15.96	15 0	14.50	51 59	14.64	37	23.35	58 11	14.10	14	32.47	52 30	13.89	12	2.92	5 07
13.04	13	3.17	54 06	15.04	1	14.66	53 59	15.96	37	23.50	51 50	15.44	15	32.69	59 16	15.15	12	2.93	4 07
15.15	16	3.87	56 39	15.62	1	14.76	51 52	15.62	38	23.58	59 40	15.77	16	32.74	58 43	14.02	13	3.15	1 18
15.15	16	3.90	53 59	15.96	1	14.77	52 49	15.62	38	23.72	53 53	14.78	16	32.79	50 10	15.04	13	3.22	2 18
15.04	16	3.97	54 13	15.96	2	14.87	56 18	15.32	39	23.93	51 30	15.62	16	32.87	59 23	14.10	15	3.59	2 41
14.68	18	4.36	50 35	13.30	3	15.24	51 06	15.50	40	24.25	53 30	14.41	17	33.19	56 36	15.96	16	3.85	1 30
15.44	18	4.39	51 09	13.69	3	15.30	52 33	15.77	41	24.45	59 16	15.96	18	33.37	53 09	15.04	16	3.87	7 04
12.10	18	4.42	50 06	15.21	4	15.35	57 28	15.77	43	24.81	58 29	15.32	18	33.43	59 13	15.96	17	4.09	5 15
14.94	19	4.49	57 08	14.94	4	15.37	57 39	14.19	43	24.82	54 36	15.21	18	33.46	55 38	15.21	17	4.11	3 18
14.88	19	4.55	53 30	14.54	4	15.39	58 53	15.44	43	24.90	55 04	15.96	20	33.70	52 20	15.96	18	4.23	4 26
14.94	19	4.55	55 08	14.88	4	15.45	59 05	15.96	43	24.90	58 05	15.50	13 35	94.08	0 22	15.96	19	4.49	2 34
15.96	20	4.91	57 37	14.23	4	15.52	53 42	14.36	43	24.96	59 52	15.62	36	94.10	5 17	15.62	19	4.59	4 56

25 prec. + 85 sec. — 2′ 41″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.76	14 19	4.63	6 42	12.26	15 1	14.79	6 11	15.62	15 33	22.44	4 23	12.26	16 13	32.08	1 54	13.38	13 56	98.96	16 07
12.59	19	4.66	2 03	15.50	2	14.90	2 08	14.54	33	22.45	8 43	15.96	14	32.22	6 51	15.15	56	99.07	15 51
14.68	21	5.04	7 22	15.21	2	14.91	4 20	14.41	34	22.60	2 09	15.96	14	32.32	5 22	12.76	57	99.17	12 17
15.96	22	5.25	3 56	14.78	4	15.44	8 34	15.21	35	22.96	9 52	13.49	15	32.47	1 39	14.78	57	99.27	16 00
15.96	22	5.36	4 11	15.15	4	15.48	0 47	15.50	36	23.20	2 26	14.88	15	32.50	1 11	13.57	58	99.63	18 10
15.96	24	5.73	3 40	15.21	4	15.55	6 05	14.64	37	23.38	8 14	13.30	15	32.51	5 30	15.21	59	99.74	19 01
14.68	25	5.97	7 44	15.77	5	15.59	9 43	14.32	38	23.62	9 00	14.10	15	32.57	1 48	15.50	14 0	0.04	11 31
12.26	25	6.07	0 42	15.96	5	15.77	3 53	15.96	39	23.82	4 57	15.62	16	32.95	9 17	12.59	0	0.05	13 26
14.68	26	6.37	1 10	12.10	6	15.86	9 49	14.64	39	23.82	9 34	14.45	17	32.98	3 17	15.04	1	0.30	10 52
14.78	28	6.66	8 18	12.76	7	16.07	8 37	15.04	39	23.95	7 30	11.62	17	33.13	8 17	14.41	2	0.38	11 51
15.96	29	6.89	3 17	12.10	8	16.37	0 49	13.69	41	24.37	3 05	14.73	17	33.16	0 24	14.32	2	0.54	19 57
14.10	29	6.89	7 24	14.10	9	16.57	8 13	14.02	41	24.45	4 15	13.98	18	33.21	0 03	15.96	4	0.99	12 41
11.62	29	6.97	5 13	13.57	10	16.82	8 50	13.81	41	24.45	5 31	13.69	18	33.30	1 04	15.77	4	1.06	15 06
11.94	31	7.53	1 04	15.96	11	17.05	2 17	15.96	43	24.76	9 50	15.32	18	33.42	6 55	13.69	7	1.73	12 53
14.68	32	7.81	5 37	14.94	11	17.07	3 36	13.69	44	25.03	7 46	14.23	19	33.46	5 48	15.96	7	1.74	15 00
14.54	34	8.15	4 25	13.69	11	17.08	9 28	15.96	44	25.15	4 45	15.32	20	33.71	5 28	15.44	8	1.81	10 54
13.19	37	8.99	9 17	15.77	12	17.45	8 41	15.15	44	25.16	3 43	15.21	20	33.78	0 45	15.77	10	2.31	18 20
12.42	37	9.04	7 18	14.02	12	17.47	2 26	14.64	46	25.66	4 58	13.89	13 36	94.13	11 00	15.96	10	2.50	19 49
14.32	39	9.46	2 57	15.04	13	17.53	3 36	15.21	47	25.74	9 24	14.94	36	94.20	12 08	14.19	11	2.61	14 18
15.32	40	9.62	7 28	13.30	13	17.69	2 45	11.62	48	25.98	1 05	13.49	36	94.25	18 52	14.19	11	2.65	14 01
15.77	41	9.83	6 00	15.62	14	17.86	5 19	15.96	49	26.20	1 05	15.32	36	94.25	16 53	13.89	12	2.85	15 22
14.78	41	9.91	9 44	15.96	14	17.92	4 27	14.10	49	26.34	2 36	14.64	37	94.37	13 56	15.96	14	3.48	19 25
14.54	41	9.92	4 51	15.96	14	17.93	9 42	14.94	50	26.46	5 58	14.94	37	94.50	19 52	15.50	17	4.05	10 24
15.44	41	9.99	5 49	15.96	15	18.07	4 15	14.78	50	26.50	5 37	15.04	38	94.65	17 07	14.54	17	4.14	16 29
14.64	42	10.10	4 32	15.96	15	18.09	6 43	15.96	52	27.08	2 55	15.21	38	94.81	13 26	13.89	17	4.15	18 02
11.78	44	10.66	8 35	15.62	15	18.20	7 32	15.21	53	27.26	5 56	15.96	39	94.97	12 14	15.96	18	4.43	16 25
14.19	45	10.87	7 26	15.62	16	18.26	2 26	15.44	54	27.44	5 23	15.96	42	95.67	18 27	15.96	23	5.50	10 32
15.68	46	11.01	9 43	15.96	16	18.29	8 54	15.21	54	27.47	2 26	15.15	42	95.67	19 08	13.11	23	5.51	12 47
13.42	46	11.03	5 43	15.21	17	18.50	9 20	12.26	54	27.61	1 22	14.88	42	95.69	13 28	15.96	23	5.53	11 57
15.44	47	11.29	3 18	15.77	18	18.78	7 01	15.50	56	27.98	6 25	14.23	42	95.70	15 47	15.44	24	5.83	11 51
15.32	47	11.33	1 59	15.21	18	18.82	5 48	14.45	56	27.99	8 53	15.62	43	95.81	15 59	13.77	24	5.84	14 10
14.59	48	11.50	9 38	13.23	19	18.97	4 15	14.41	57	28.25	4 36	15.44	43	95.83	11 48	14.02	25	5.93	14 55
15.96	49	11.90	7 51	15.77	19	19.15	2 25	15.50	59	28.66	6 06	14.10	44	96.04	16 55	15.96	25	5.95	10 26
15.96	49	11.92	5 41	13.69	19	19.16	4 03	14.54	16 0	29.02	4 57	15.21	45	96.48	16 26	14.45	25	5.99	16 16
15.96	50	12.04	7 21	14.94	20	19.21	4 19	15.96	1	29.28	1 04	11.55	46	96.56	10 38	6.47[1]	25	6.08	19 46
14.32	50	12.16	4 00	15.62	20	19.31	8 09	15.96	2	29.57	8 59	9.33	46	96.69	13 48	15.96	25	6.11	11 28
13.69	52	12.49	3 19	13.81	20	19.41	3 08	14.10	3	29.72	8 55	12.42	47	96.81	18 03	14.68	26	6.34	14 59
15.50	52	12.56	3 13	14.68	24	20.30	7 04	14.78	3	29.80	7 35	15.96	47	96.97	14 30	15.77	27	6.50	11 40
15.50	53	12.68	0 48	15.04	25	20.51	3 28	14.64	4	29.88	1 55	13.04	48	97.12	14 53	14.02	29	7.06	17 11
15.96	54	13.11	2 00	12.76	25	20.62	4 52	13.38	5	30.18	3 49	15.15	48	97.16	13 11	12.42	31	7.59	18 59
15.38	55	13.36	0 32	14.32	27	20.97	1 39	12.76	5	30.19	8 11	15.44	49	97.43	17 14	13.00	33	7.88	10 26
14.64	56	13.56	9 14	14.68	28	21.20	5 16	13.89	5	30.22	2 44	15.96	50	97.50	15 36	14.45	33	7.89	14 50
15.62	56	13.64	6 39	15.96	28	21.26	2 49	13.30	6	30.49	7 00	15.96	50	97.53	14 02	14.02	34	8.12	10 31
9.37*	57	13.72	5 09	15.96	29	21.43	7 13	14.02	7	30.76	3 39	14.10	50	97.69	19 12	14.41	34	8.29	13 48
15.32	57	13.73	6 10	14.68	29	21.45	1 52	15.96	8	30.97	0 01	15.96	51	97.92	15 51	15.50	35	8.45	15 48
15.21	58	14.01	7 53	14.02	29	21.48	2 19	15.96	10	31.30	9 27	13.49	52	98.15	12 55	12.93	36	8.57	14 25
15.04	59	14.26	4 02	14.14	29	21.48	0 26	15.62	10	31.36	8 13	12.10	52	98.17	15 41	15.77	36	8.78	11 02
15.62	15 0	14.46	2 16	14.54	31	22.01	0 05	13.98	10	31.42	1 19	15.21	54	98.56	15 28	15.96	38	9.21	12 31
14.88	0	14.50	2 05	15.62	32	22.09	2 26	15.96	11	31.64	6 52	15.96	55	98.68	15 30	13.69	38	9.24	17 21
14.45	1	14.61	1 34	15.96	33	22.35	8 22	15.62	12	31.88	6 49	14.45	55	98.78	14 39	15.96	38	9.28	11 16

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[1] Vis. magn. from Harv. Ann. **50** reduced to photogr. magn. by Harv. Ann. **71**, I p. 7.

25 prec. + 85 sec. — 2′ 41″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.19	14 39	9.43	11 55	15.96	15 31	21.96	17 57	15.21	16 13	31.99	12 35	15.96	14 9	2.09	20 45	13.87	14 57	13.78	29 41
15.04	40	9.58	16 02	12.76	32	22.20	17 44	15.32	13	32.14	11 24	13.98	10	2.31	22 57	11.24	58	13.94	28 15
15.50	42	10.09	18 43	15.96	33	22.54	18 49	14.94	14	32.35	11 05	15.15	11	2.56	23 26	15.96	59	14.25	21 27
15.96	44	10.66	19 31	11.88	34	22.56	10 10	14.32	14	32.39	17 57	14.64	12	2.96	29 12	15.96	59	14.27	28 28
15.26	44	10.74	19 41	15.44	34	22.64	18 48	14.19	15	32.48	12 43	14.88	16	3.76	20 55	14.94	15 1	14.72	22 50
14.02	46	11.08	16 37	15.44	35	22.98	13 42	13.98	15	32.54	14 59	15.21	17	4.07	22 25	13.81	3	15.10	24 26
15.44	46	11.18	17 17	13.98	36	23.15	19 22	15.96	15	32.55	11 19	15.62	18	4.44	21 40	13.89	4	15.35	24 32
14.10	50	11.96	10 34	15.32	36	23.22	12 50	13.98	16	32.78	11 31	14.68	19	4.52	29 40	14.41	6	15.79	22 08
15.96	50	12.04	19 52	14.36	36	23.26	10 28	15.96	16	32.84	13 48	15.96	19	4.56	24 44	13.98	6	15.89	25 30
15.44	51	12.21	12 13	14.54	37	23.42	13 24	13.57	20	33.86	16 59	15.96	21	4.95	21 27	15.77	6	16.03	23 59
14.88	52	12.45	16 19	14.19	38	23.65	11 52	14.10	20	33.89	17 39	15.32	22	5.31	23 38	15.77	7	16.11	29 29
13.89	52	12.51	17 58	14.23	39	23.81	13 05	14.41	13 35	94.02	24 07	15.50	23	5.56	25 53	15.96	7	16.25	28 40
12.93	54	13.04	18 24	15.62	39	23.93	17 49	15.77	36	94.18	27 42	15.96	24	5.74	28 23	15.96	9	16.54	21 05
15.96	55	13.16	17 48	14.28	40	24.01	10 10	14.68	36	94.19	29 49	12.42	24	5.89	22 29	15.77	9	16.64	26 13
15.96	55	13.24	12 04	15.15	40	24.12	16 22	14.19	36	94.22	29 23	14.19	25	6.03	26 42	15.32	10	16.86	24 54
15.77	56	13.63	18 23	15.96	41	24.25	16 03	13.89	37	94.48	22 08	15.62	25	6.13	25 48	15.96	10	16.88	27 31
15.15	58	14.02	12 35	14.64	41	24.31	18 13	14.10	38	94.81	26 30	15.44	27	6.57	21 07	15.21	12	17.35	25 14
12.76	59	14.27	16 16	13.38	41	24.32	11 04	14.64	39	94.92	26 54	15.15	27	6.57	21 49	14.78	12	17.36	23 23
12.93	15 0	14.49	13 33	15.15	41	24.35	16 24	15.96	39	94.97	22 04	10.96	29	7.00	20 32	15.77	12	17.40	23 05
14.19	3	15.17	12 20	14.94	41	24.41	15 27	14.78	40	95.08	22 24	15.04	30	7.22	21 24	13.89	12	17.40	29 15
15.96	3	15.21	18 56	11.94	42	24.48	10 25	13.42	41	95.37	24 09	13.81	30	7.31	25 21	14.10	12	17.42	23 36
11.57	4	15.32	18 31	11.94	42	24.49	10 19	14.19	41	95.42	27 44	14.83	31	7.51	20 10	9.72*	14	17.75	21 18
15.96	5	15.78	17 23	14.64	43	24.84	17 38	13.81	41	95.50	28 00	15.96	33	7.98	22 44	15.96	15	18.04	20 39
15.77	8	16.32	17 25	15.96	45	25.23	13 21	13.69	42	95.68	23 35	12.26	34	8.18	24 58	13.42	15	18.09	21 46
14.88	8	16.47	16 09	13.00	45	25.34	19 58	14.88	42	95.68	27 23	14.41	35	8.46	28 41	11.62	17	18.47	27 47
15.21	9	16.58	14 10	15.96	47	25.87	15 31	8.20*	45	96.41	22 06	14.54	37	9.02	22 32	14.78	17	18.64	27 33
15.77	9	16.74	19 34	14.23	48	25.96	13 48	13.11	45	96.42	28 28	15.62	38	9.13	23 54	12.59	17	18.65	25 34
12.76	10	16.80	18 34	15.21	50	26.55	16 12	15.77	45	96.42	24 34	15.96	39	9.30	20 58	13.49	18	18.88	25 32
14.88	10	16.91	13 25	14.88	52	26.96	10 42	15.96	47	96.83	29 52	15.04	39	9.36	25 26	14.23	19	19.09	26 36
14.64	11	17.09	14 23	15.62	52	27.13	12 06	15.32	47	96.89	27 25	14.78	40	9.75	28 58	13.81	22	19.80	20 45
15.50	12	17.34	12 33	13 38	53	27.21	10 28	14.10	49	97.31	20 41	12.10	41	9.90	27 58	15.44	24	20.14	27 54
14.19	13	17.49	12 29	15.15	54	27.38	15 27	15.04	50	97.62	24 05	15.62	41	9.96	23 09	15.96	24	20.16	29 22
15.96	15	18.01	17 23	15.32	57	28.19	12 05	15.50	51	97.75	21 45	13.77	47	11.25	25 59	14.78	28	21.18	27 53
11.78	15	18.19	13 03	11.94	58	28.45	10 49	15.96	53	98.29	27 30	14.78	47	11.43	24 07	13.69	28	21.30	22 41
15.21	16	18.22	18 16	12.59	58	28.54	11 34	11.94	53	98.31	26 46	12.59	48	11.45	25 33	15.96	31	21.92	27 33
15.96	16	18.43	12 12	15.77	59	28.63	13 21	14.45	54	98.45	22 45	14.45	48	11.46	21 59	15.96	35	22.80	23 34
15.96	21	19.46	10 07	14.78	16 0	28.96	18 13	13.81	55	98.75	24 11	14.64	49	11.92	20 06	15.04	36	23.03	24 55
15.15	22	19.77	12 12	15.21	3	29.76	12 39	14.68	14 0	0.08	27 38	15.32	51	12.28	23 27	13.89	36	23.15	27 34
15.15	22	19.79	13 31	13.81	4	29.83	12 52	10.07	0	0.09	24 15	14.64	51	12.32	29 09	15.77	36	23.25	26 00
14.94	23	19.99	13 57	15.96	4	29.94	10 51	15.96	1	0.13	25 42	15.77	51	12.33	29 33	15.96	37	23.30	26 19
13.38	24	20.25	11 09	13.77	5	30.10	12 34	15.96	2	0.58	28 10	13.81	52	12.58	23 35	14.94	37	23.31	29 37
12.59	26	20.79	16 14	15.04	6	30.28	13 20	15.44	2	0.60	20 27	15.15	53	12.83	21 26	15.96	39	23.93	29 29
15.04	26	20.80	18 46	15.77	6	30.45	14 10	15.96	4	0.86	27 49	14.94	54	12.96	22 31	14.23	39	23.96	28 30
15.15	27	20.89	15 59	15.62	6	30.47	13 42	15.96	5	1.21	23 35	15.50	54	13.04	21 47	14.94	40	24.02	23 06
15.77	27	20.95	14 11	13.49	9	31.02	10 52	15.77	5	1.29	28 17	15.15	55	13.19	26 18	14.54	40	24.03	20 17
15.96	28	21.20	17 28	15.96	9	31.15	18 17	15.62	6	1.56	28 22	15.15	56	13.38	24 53	11.78	40	24.15	26 39
14.10	28	21.22	16 49	14.94	10	31.25	16 02	14.78	8	1.83	22 02	15.04	56	13.39	21 24	15.96	40	24.18	27 03
14.94	29	21.36	13 41	14.78	10	31.34	19 22	15.21	8	1.84	24 11	12.93	56	13.46	23 51	15.21	41	24.41	23 52
15.96	29	21.56	12 13	15.96	11	31.65	12 57	10.91	8	1.95	26 20	15.15	56	13.57	22 55	13.04	41	24.45	22 49
13.23	30	21.71	17 51	15.96	12	31.83	18 15	14.68	8	1.97	26 33	15.21	56	13.61	27 07	14.23	43	24.81	22 53

25 prec. + 85 sec. — 2′ 41″.

Area 75.

751—760				761—770				771—780				781—790				791—796			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
13.89	15 44	25.02	20 31	15.21	15 53	27.14	23 47	15.96	16 0	28.83	27 26	12.76	16 7	30.60	24 20	12.76	16 15	32.57	20 58
15.21	47	25.71	25 52	15.96	53	27.28	20 04	15.21	2	29.38	23 52	14.10	7	30.66	28 35	14.45	16	32.65	21 16
15.15	48	26.00	22 50	15.62	53	27.29	21 09	14.88	2	29.50	28 09	14.19	9	30.99	23 04	14.88	17	33.06	21 05
13.81	49	26.18	28 43	15.96	54	27.41	21 25	15.96	3	29.67	26 14	15.96	11	31.50	21 58	15.96	18	33.15	27 26
13.89	50	26.50	23 36	15.21	55	27.71	28 39	13.98	4	29.76	25 30	15.96	11	31.64	22 46	15.96	19	33.39	23 39
15.44	50	26.52	28 03	12.59	55	27.72	28 48	14.68	5	30.04	24 09	13.98	13	31.99	21 58	15.32	19	33.52	24 51
15.96	51	26.79	26 00	15.62	56	28.00	21 20	15.44	5	30.11	21 01	14.64	13	32.14	20 35				
14.64	52	27.02	22 04	15 50	56	28.02	21 45	13.49	6	30.26	22 20	15.96	14	32.19	23 14				
14.54	53	27.12	28 21	15.44	57	28.25	22 01	14.41	7	30.57	29 07	14.41	14	32.35	28 02				
14.10	53	27.14	22 08	13.04	58	28.45	25 36	14.02	7	30.60	25 51	15.77	14	32.36	29 01				

25 prec. + 86 sec. — 2′ 43″.

Area 76. Centre for 1900: 8^h 15^m + 15° 0′.

1—30				31—60				61—90				91—120				121—150			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.10	13 29	78.05	33 09	15.18	14 37	94.50	31 50	14.81×	15 55	13.37	36 05	13.70	13 32	78.62	49 47	15.33	15 26	6.17	47 51
15.10	32	78.61	35 57	15.67	38	94.59	34 53	15.67	16 10	17.00	37 38	14.81	35	79.35	44 33	15.67	26	6.39	49 44
14.75	32	78.74	34 09	12.57	40	95.21	32 51	15.18	11	17.14	31 51	15.67	38	80.28	40 00	13.96	27	6.42	40 53
11.60	33	78.84	35 53	11.36	43	95.98	35 02	15.67	11	17.22	31 42	15.33	39	80.48	46 34	11.82	27	6.64	41 41
15.67	37	79.94	36 09	14.95	48	97.00	34 50	12.64	11	17.25	37 19	11.63	41	80.82	45 51	15.33	28	6.87	41 36
8.1 1)	38	80.09	30 46	15.33	48	97.19	38 49	8.51*	13	17.72	38 12	15.67	48	82.55	41 38	15.33	30	7.26	48 32
14.75	41	80.89	38 14	15.76	49	97.42	31 18	13.01	18	18.79	31 36	11.98	50	82.96	42 20	15.10	33	8.07	45 58
12.14	42	81.14	30 03	14.21	50	97.57	35 21	14.61	26	20.75	37 53	15.67	51	83.21	45 53	13.96	34	8.24	48 08
14.75	45	81.88	32 58	12.57	55	98.80	30 08	15.67	26	20.88	37 01	15.67	51	83.26	40 55	15.67	35	8.49	42 38
15.67	48	82.67	33 05	14.81	59	99.80	30 23	15.67	38	23.80	38 35	15.67	53	83.90	41 20	14.61	41	9.84	46 16
11.50	50	83.14	33 44	13.61	15 1	0.29	37 00	13.70	39	23.97	31 36	14.75	54	84.13	46 32	12.14	44	10.67	46 59
14.81	56	84.58	32 55	15.67	1	0.29	33 41	14.81	40	24.27	37 01	15.48	55	84.30	46 43	15.67	45	10.77	47 57
14.95	58	85.02	34 17	14.43	4	0.89	33 41	13.61	42	24.60	38 54	15.67	59	85.16	41 12	15.67	51	12.29	47 16
15.67	14 4	86.52	33 57	12.93	4	1.03	38 15	15.67	48	26.04	39 17	11.53	14 0	85.51	42 05	15.67	16 1	14.82	48 22
13.74	4	86.53	36 20	10.55	6	1.37	35 17	11.98	50	26.49	30 58	15.67	4	86.39	42 54	12.47	5	15.68	41 06
13.74	5	86.60	33 36	15.67	15	3.66	39 20	14.05	51	26.78	31 57	14.75	7	87.21	44 59	15.10	7	16.15	46 57
14.21	6	87.05	35 40	15.67	16	3.90	34 29	14.21	51	26.79	35 20	13.20	7	87.23	47 54	14.81	7	16.30	48 50
15.67	7	87.12	37 02	14.31	20	4.79	33 53	14.43	53	27.35	31 31	15.67	20	90.39	44 53	14.49	12	17.29	48 56
15.67	11	88.18	31 18	14.61	20	4.90	39 42	13.70	57	28.30	38 46	13.20	21	90.58	44 34	15.67	13	17.66	42 00
15.18	13	88.55	30 04	11.82	27	6.59	31 33	15.67	58	28.56	33 56	15.18	24	91.39	48 54	14.05	13	17.71	41 08
15.67	18	89.83	36 58	14.75	32	7.74	36 29	14.21	17 5	30.17	37 50	15.18	35	93.85	48 06	15.67	20	19.30	44 19
15.67	20	90.20	35 13	15.67	32	7.77	34 43	15.67	8	31.05	30 36	13.49	39	95.02	43 51	14.31	26	20.70	49 57
14.61	22	90.73	34 28	14.75	34	8.24	39 23	13.61	12	32.02	30 23	11.98	42	95.77	43 11	14.21	32	22.19	44 07
13.32	23	90.95	35 52	15.67	37	8.92	33 18	14.31	13	32.29	31 07	14.95	51	97.87	44 06	13.40	34	22.76	48 55
15.67	25	91.59	33 15	14.49	38	9.27	33 48	12.47	16	32.95	33 26	13.53	15 0	99.92	48 47	13.49	35	22.99	43 43
15.67	27	91.96	31 39	11.78	41	9.97	33 22	13.40	20	33.95	31 52	13.32	6	1.50	43 34	15.25	42	24.73	49 39
12.64	30	92.70	38 55	13.09	42	10.19	35 02	14.81	22	34.26	38 42	13.96	15	3.68	45 24	15.18	43	24.82	46 26
11.63	31	92.90	37 37	13.92	49	11.89	31 55	13.20	29	36.06	31 08	13.12	16	3.76	44 02	15.03	43	24.92	49 48
14.81	32	93.22	30 31	12.64	50	11.99	38 23	14.75	32	36.81	35 00	13.74	19	4.52	42 27	15.10	47	25.77	46 29
12.14	33	93.40	34 46	15.67	55	13.24	34 34	15.33	36	37.82	30 34	15.33	24	5.73	44 10	14.43	49	26.28	41 01

25 prec. + 84 sec. — 4′ 39″.

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1) Magnitude somewhat uncertain, extrapolated.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′ / y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.31	16 52	27.03	43 48	13.32	15 39	9.40	57 53	14.37	13 41	80.88	0 28	15.67	16 44	25.18	0 09	12.30	14 23	91.05	15 42
14.61	53	27.31	42 32	14.15	39	9.47	57 58	11.33	44	81.70	7 49	15.67	46	25.57	2 40	14.75	24	91.37	10 00
15.33	54	27.68	41 08	15.67	40	9.64	51 09	14.75	49	82.78	0 03	14.43	47	25.78	4 31	15.67	28	92.38	12 20
15.67	56	28.02	49 41	15.67	42	10.03	56 32	13.70	49	82.89	6 10	14.21	48	26.05	2 56	15.48	31	93.06	15 51
12.47	17 0	29.08	48 11	15.67	43	10.34	57 56	14.49	50	83.14	7 05	14.95	51	26.82	2 07	15.48	38	94.80	17 21
12.75	1	29.31	46 39	15.67	43	10.48	56 05	15.67	51	83.23	6 29	15.67	53	27.21	6 48	13.61	42	95.71	12 00
15.67	7	30.69	48 11	14.31	49	11.74	55 22	15.67	54	84.00	9 28	12.30	54	27.59	1 30	15.67	44	96.21	11 09
15.67	10	31.37	44 48	15.67	49	11.76	50 42	12.82	56	84.48	8 36	13.61	55	27.81	0 55	15.67	45	96.48	18 40
15.67	12	31.81	47 11	14.81	52	12.51	57 43	13.74	58	85.00	5 03	15.67	55	27.85	9 02	15.18	50	97.64	17 36
14.75	25	34.96	46 01	13.61	56	13.57	55 21	13.12	59	85.32	9 32	15.67	17 0	28.89	9 17	15.48	51	97.82	12 03
13.70	33	37.09	41 54	14.49	57	13.76	50 46	15.67	14 1	85.82	5 46	14.21	2	29.56	6 17	15.67	52	98.14	10 39
9.67	37	37.96	40 03	15.67	58	13.92	55 03	15.33	4	86.42	5 06	15.18	3	29.74	8 41	14.21	52	98.17	12 17
13.40	13 32	78.81	53 09	15.48	59	14.17	56 27	15.67	7	87.10	6 24	15.67	4	29.86	3 27	15.67	54	98.63	19 07
14.95	34	79.22	53 18	15.10	16 1	14.80	54 48	15.18	12	88.46	1 22	15.67	5	30.15	2 40	15.67	15 4	0.84	10 08
14.75	36	79.82	54 10	9.71*	6	15.88	55 13	14.05	26	91.87	8 01	11.71	5	30.26	9 56	15.48	4	1.03	11 04
15.10	40	80.64	57 56	15.67	12	17.31	56 03	15.67	30	92.80	4 28	12.93	6	30.48	4 17	14.49	6	1.51	11 02
9.65	40	80.69	52 14	14.81	13	17.65	54 57	13.92	32	93.30	6 42	13.20	8	31.00	0 21	11.65	6	1.54	19 56
15.18	43	81.31	56 39	9.94	17	18.55	55 47	12.14	34	93.78	0 24	15.18	10	31.45	1 05	11.63	13	3.24	16 42
15.67	43	81.50	51 58	15.18	22	19.73	51 19	14.61	35	93.98	5 26	12.82	15	32.53	3 24	14.81	14	3.27	15 44
14.49	44	81.54	57 13	15.18	24	20.21	51 53	15.67	39	94.94	8 01	14.61	17	33.08	8 53	14.43×	19	4.52	12 39
15.48	44	81.71	54 57	14.31	25	20.43	58 53	14.05	55	98.88	0 05	14.31	23	34.48	8 58	15.67	29	6.97	15 22
15.18	50	82.99	51 25	14.21	25	20.64	50 13	14.21	58	99.48	7 41	15.67	25	34.91	6 28	13.96	30	7.25	18 53
12.64	51	83.36	55 13	15.67	26	20.82	53 51	15.67	15 1	0.22	3 10	15.33	25	34.95	5 22	14.21	32	7.64	15 04
15.67	14 5	86.61	51 02	14.61	30	21.78	54 14	15.67	1	0.26	1 42	14.21	26	35.33	1 14	14.81	35	8.53	13 39
12.82	5	86.77	57 26	14.05	35	22.90	54 10	14.75	10	2.42	3 21	15.67	28	35.80	8 15	15.48	39	9.36	19 08
15.33	6	86.98	53 07	14.75	40	24.08	59 29	13.83	14	3.30	9 01	13.70	36	37.68	8 15	13.83	39	9.44	16 38
15.33	17	89.52	52 46	14.95	40	24.14	56 18	14.05	19	4.55	4 33	15.67	13 29	78.05	11 56	15.67	41	9.82	15 51
14.15	22	90.73	51 39	13.96	42	24.58	53 37	15.67	20	4.93	8 24	14.81	33	79.01	15 05	15.67	49	11.73	15 47
13.74	26	91.67	51 32	14.05	48	26.05	59 15	15.10	23	5.59	2 23	15.67	33	79.02	19 14	14.21	51	12.24	16 07
13.12	26	91.79	52 30	14.81	48	26.10	52 20	13.12	25	6.13	4 23	14.81	33	79.11	11 00	9.31	53	12.73	18 14
14.31	27	91.93	54 43	12.30	50	26.47	57 41	12.14	30	7.12	3 09	14.49	34	79.23	16 27	13.92	54	13.03	12 21
15.67	32	93.20	58 34	15.33	56	27.90	51 36	13.74	30	7.25	7 52	8.71	35	79.47	19 58	14.21	55	13.15	16 15
13.83	34	93.83	52 32	15.48	56	27.91	55 13	9.09*	34	8.11	1 25	14.21	36	79.71	16 55	15.67	58	13.98	15 32
14.75	36	94.21	57 51	14.05	56	27.93	51 26	15.67	37	8.85	1 40	13.61	38	80.19	10 51	15.67	16 4	15.38	13 35
14.95	37	94.39	50 49	12.47	56	28.03	54 49	15.67	40	9.64	0 06	15.48	40	80.81	17 08	14.81	5	15.58	19 11
13.74	39	94.97	54 30	14.95	17 0	28.97	56 32	15.67	42	10.09	9 29	14.43	42	81.16	17 43	15.67	6	15.79	17 22
10.13	44	96.08	50 03	15.10	1	29.27	53 21	13.09	44	10.54	0 48	15.18	46	82.06	12 48	14.95	8	16.52	18 26
15.67	47	96.80	54 22	14.75	5	30.28	51 06	14.81	50	12.02	8 23	15.67	46	82.15	18 23	15.67	9	16.65	14 57
14.81	15 0	0.06	52 42	14.81	7	30.67	59 52	14.81	54	13.01	1 11	15.18	47	82.44	12 24	12.64	9	16.69	13 12
14.21	4	0.95	51 51	13.12	12	31.89	52 38	13.32	16 2	14.87	2 33	14.81	49	82.90	13 34	14.43	12	17.41	18 47
14.61	5	1.30	55 11	15.48	16	32.84	51 07	15.67	10	16.81	5 08	15.67	56	84.48	16 46	15.67	12	17.48	11 30
15.76	9	2.10	54 41	13.49	25	34.97	58 03	8.32*	21	19.52	5 11	15.67	14 3	86.17	10 39	14.21	16	18.33	12 17
11.98	11	2.65	51 22	15.33	26	35.32	54 35	15.33	25	20.49	2 00	15.33	9	87.71	14 28	13.74	16	18.37	14 17
12.71	14	3.29	56 49	15.67	30	36.27	51 53	13.70	28	21.30	2 25	14.05	9	87.75	11 14	15.10	21	19.57	13 24
13.32	14	3.45	53 37	15.67	31	36.57	59 03	9.36	30	21.84	3 41	15.67	10	88.02	13 24	14.49	25	20.40	19 22
14.75	16	3.74	59 43	14.26	34	37.19	50 22	12.47	35	22.97	5 40	15.67	12	88.47	14 38	14.43	26	20.74	15 43
12.64	17	4.02	56 04	13.74	35	37.33	58 03	13.70	38	23.65	5 34	13.53	16	89.36	16 37	13.70	30	21.67	13 34
15.67	24	5.83	53 26	13.65	13 37	79.92	9 41	15.67	38	23.75	2 13	15.67	16	89.47	16 33	14.21	35	22.80	10 34
14.95	32	7.73	54 24	15.67	39	80.49	5 33	14.95	39	23.80	7 29	13.61	19	90.07	13 26	13.74	35	22.82	10 42
14.15	37	8.87	51 37	13.92	40	80.79	1 33	15.67	44	25.14	5 24	14.95	21	90.56	10 06	14.15	35	22.88	11 23

25 prec. + 84 sec. — 4′ 39″.

8^h Area 76. $+15^\circ$

401—420				421—440				441—460				461—480				481—496			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.67	16 47	25.76	11 32	15.48	13 56	84.48	21 58	14.05	14 58	99.44	20 16	13.28	15 50	12.05	24 53	14.81	16 36	23.15	27 38
10.25	48	26.15	18 45	13.87	57	84.88	20 04	12.64	58	99.63	23 58	10.96	50	12.10	25 36	15.18	42	24.57	24 12
12.82	49	26.39	15 14	14.81	14 12	88.50	24 51	13.96	15 0	0.10	26 44	12.57	54	12.95	27 57	15.18	51	26.87	22 22
15.18	51	26.84	17 38	13.74	14	88.90	29 05	15.48	7	1.69	21 11	15.67	16 4	15.53	22 07	14.05	58	28.46	23 19
12.90	17 9	31.12	19 26	12.47	15	89.23	29 23	10.66	12	2.81	27 14	11.66	5	15.70	28 23	13.70	59	28.63	23 18
15.33	14	32.40	15 43	15.67	16	89.50	22 14	13.61	14	3.44	21 31	14.05	9	16.75	22 11	15.67	17 1	29.22	20 46
15.48	22	34.32	18 36	13.92	17	89.69	23 41	15.67	18	4.26	25 24	14.31	13	17 55	23 48	14.95	4	29.78	24 50
14.31	28	35.73	12 03	13.49	17	89.70	21 18	15.67	20	4.88	24 11	15.48	15	18.12	26 22	15.67	5	30.01	26 01
14.95	30	36.08	14 33	12.75	22	90.81	29 32	15.33	23	5.50	27 04	14.21	19	19.02	26 52	14.05	6	30.35	23 22
13.61	30	36.29	16 06	15.67	30	92.67	21 41	12.14	27	6.43	28 46	12.57	20	19.24	29 27	13.61	12	31.84	28 24
13.92	33	36.79	12 40	13.01	30	92.70	25 45	14.81	27	6.49	21 01	15.33	21	19.44	20 36	15.67	16	32.79	24 43
10.96	13 29	78.13	26 38	15.67	32	93.22	29 14	15.10	29	7.05	23 19	13.83	22	19.79	23 57	14.15	18	33.21	29 04
13.53	31	78.54	29 33	14.15	37	94.52	20 54	14.75	32	7.63	24 39	15.67	22	19.79	21 54	11.98	19	33.55	24 36
15.67	38	80.15	21 20	14.21	37	94.53	20 39	15.33	33	7.93	27 19	14.81	23	20.07	29 19	14.05	31	36.48	23 10
12.30	40	80.67	26 30	15.67	41	95.53	27 53	15.48	33	7.96	25 17	11.98	27	21.00	29 39	14.95	34	37.00	25 08
13.92	45	82.02	24 43	12.64	48	97.23	22 07	14.15	38	9.21	21 08	12.71	27	21.06	21 48	14.81	37	37.92	28 30
15.67	47	82.33	20 39	13.92	53	98.27	21 15	14.49	40	9.59	24 33	12.82	28	21.17	27 42				
11.98	47	82.35	25 19	13.92	53	98.41	29 58	15.67	45	10.95	29 11	14.21	29	21.49	23 09				
13.96	48	82.61	25 33	12.93	54	98.45	24 03	12.30	48	11.51	24 47	13.79	32	22.19	20 10				
15.67	49	82.86	27 15	15.67	55	98.79	23 03	15.67	49	11.71	21 49	13.83	35	22.79	27 35				

25 prec. + 84 sec. — 4′ 40″.

9^h Area 77. Centre for 1900: $9^h\ 10^m + 14^\circ\ 30'$. $+14^\circ$

1—20				21—40				41—60				61—80				81—100			
Int. magn.	a	x	$y+30'$	Int. magn.	a	x	$y+30'$	Int. magn.	a	x	$y+30'$	Int. magn.	a	x	$y+30'$	Int. magn.	a	x	$y+30'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.73	8 35	79.30	3 37	15.65	9 47	96.96	0 29	14.61	11 32	22.39	8 42	13.11	8 53	83.69	13 19	14.44	10 7	1.59	15 10
15.16	35	79.35	9 52	14.06	10 3	0.82	9 21	13.82	33	22.60	2 41	11.20	54	83.97	19 04	13.04	12	2.79	12 20
15.09	35	79.40	0 50	13.41	10	2.51	2 10	12.64	34	22.92	6 45	15.09	54	84.05	18 19	13.92	29	7.01	15 23
11.75	39	80.38	4 41	13.92	20	4.96	0 20	14.06	40	24.19	4 14	14.74	9 0	85.36	18 29	15.09	31	7.61	16 56
10.95	41	80.86	4 10	12.87	25	6.10	3 59	15.65	52	27.04	8 16	15.65	4	86.35	10 24	14.06	32	7.78	18 15
15.65	56	84.51	1 06	15.46	25	6.14	9 55	14.81	58	28.49	1 04	15.65	4	86.36	11 38	15.46	39	9.50	18 28
15.31	58	84.87	1 52	14.74	33	8.10	3 38	14.16	12 10	31.48	4 09	11.27	6	86.85	13 38	15.31	43	10.36	17 10
12.70	59	85.28	1 22	15.65	34	8.26	7 16	9.11	20	33.93	4 45	14.74	10	87.78	16 42	11.91	45	10.85	13 44
14.94	9 1	85.78	1 05	14.94	36	8.70	0 43	14.81	20	34.00	3 16	12.64	12	88.46	17 14	15.16	50	12.11	12 43
14.44	2	85.81	7 36	14.16	44	10.56	8 26	14.22	21	34.08	3 34	14.94	17	89.64	18 56	15.46	51	12.26	13 15
15.09	4	86.31	6 03	11.44	45	10.83	3 11	13.41	21	34.16	5 10	14.06	19	90.17	15 20	15.16	54	13.16	14 01
13.52	17	89.56	4 46	15.16	51	12.28	1 56	15.65	25	35.12	6 09	14.94	30	92.61	16 10	15.09	11 2	14.98	16 07
14.74	21	90.44	9 44	15.65	51	12.40	0 26	15.09	26	35.35	2 43	13.73	30	92.61	12 58	15.65	4	15.47	11 34
14.61	22	90.79	3 37	14.32	11 5	15.72	1 05	15.31	33	37.21	1 17	14.49	31	92.92	16 53	15.65	7	16.23	10 41
14.49	24	91.26	8 57	13.73	5	15.79	3 55	13.60	36	37.82	6 00	11.75	40	95.09	15 48	15.09?	8	16.56	18 36
14.81	26	91.79	1 28	15.31	7	16.19	3 54	13.52	37	38.06	7 41	11.10	41	95.42	15 42	13.92	13	17.58	16 24
14.94	29	92.52	2 05	15.65	10	16.87	8 50	15.46	38	38.23	4 57	13.04	50	97.64	15 31	15.65	17	18.59	15 39
14.61	32	93.22	6 00	15.65	22	19.94	5 37	11.91	8 35	79.41	10 28	15.46	10 0	0.02	15 58	12.64	17	18.61	11 14
13.92?	44	96.20	4 37	13.96	23	20.15	4 51	12.97	47	82.39	14 39	13.33	5	1.15	13 31	14.16	21	19.72	10 26
13.96	45	96.44	3 01	14.94	25	20.72	4 29	14.06	50	83.00	10 12	13.52	6	1.53	17 56	14.74	23	20.07	18 43

25 prec. + 82 sec. — 6′ 10″.

101—150				151—200				201—250				251—300				301—329			
Int. magn.	α	x	y+30′	Int. magn.	α	x	y+30′	Int. magn.	α	x	y+30′	Int. magn.	α	x	y+30′	Int. magn.	α	x	y+30′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.69	11 25	20.65	12 14	15.65	11 30	21.72	28 22	14.55	11 15	18.08	39 28	15.46	10 53	12.82	43 48	14.81	10 55	13.37	52 12
15.31	29	21.57	10 08	15.65	31	22.12	26 18	15.31	24	20.43	38 54	14.94	58	14.08	47 27	14.49	59	14.26	50 29
13.49	36	23.25	15 36	14.44	35	22.99	23 08	12.22	27	21.14	36 51	11.75	11 3	15.13	45 08	13.73	11 5	15.72	51 19
13.92	38	23.80	14 26	13.01	37	23.44	29 47	13.96	33	22.39	33 57	14.94	7	16.21	41 14	14.81	5	15.78	59 45
15.65	41	24.54	14 14	12.64	38	23.65	23 49	15.31	37	23.44	36 34	15.31	21	19.64	46 41	15.31	10	16.97	51 11
13.52	43	24.91	10 54	15.65	45	25.36	22 32	15.65	39	23.89	35 43	15.46	26	20.73	41 38	14.06	14	17.79	56 05
12.87	49	26.34	18 10	15.65	46	25.69	23 35	13.15	47	25.95	33 34	12.38	26	20.89	45 11	14.94	27	20.92	53 21
15.65	59	28.76	13 40	14.81	48	26.22	21 05	12.94	54	27.48	34 09	11.66	37	23.53	40 20	15.65	28	21.32	50 46
15.31	12 3	29.80	18 11	14.81	49	26.50	22 59	15.09	12 1	29.22	35 09	15.65	41	24.35	46 07	14.74	29	21.52	56 50
15.65	10	31.44	12 18	15.31?	58	28.65	21 06	12.22	3	29.85	37 09	14.74	50	26.49	43 19	13.82	29	21.53	56 01
10.93	18	33.45	17 04	14.94	12 7	30.66	24 06	11.75	5	30.24	31 59	13.56	52	27.18	40 22	15.31	31	21.99	55 15
15.46	21	34.21	12 17	15.31	8	31.01	20 06	14.16	8	30.97	38 20	13.82	53	27.27	48 36	14.32	38	23.76	59 03
15.16	24	34.81	11 52	14.94	8	31.04	27 58	14.81	10	31.55	38 46	15.46	53	27.32	44 02	11.91	43	24.95	53 08
13.92	35	37.67	12 02	15.31	13	32.27	28 21	13.69	10	31.55	32 07	14.94	53	27.34	44 55	15.65	51	26.83	55 41
15.65	8 40	80.66	26 19	13.96	18	33.50	21 05	15.65	16	32.90	38 43	12.70	58	28.42	47 58	15.65	51	26.92	50 56
15.65	45	81.78	28 49	15.65	21	34.24	28 26	15.65	20	33.99	34 36	12.54	12 4	29.90	42 47	14.61	52	27.16	56 50
13.96	49	82.70	21 26	14.94	22	34.46	21 50	14.74	21	34.13	32 52	12.06	4	30.04	42 50	15.65	57	28.31	56 53
13.92	49	82.72	28 10	15.46	8 36	79.72	38 00	12.06	28	35.87	38 20	10.62	9	31.20	44 26	13.96	12 1	29.21	57 22
13.69	49	82.88	28 08	15.09	50	83.06	38 29	13.33	29	36.04	39 05	14.38	17	33.02	40 18	15.16	3	29.65	52 37
14.81	52	83.58	28 26	15.65	52	83.54	35 53	13.73	30	36.35	33 45	12.54	23	34.63	48 03	14.06?	4	29.99	59 51
15.65	9 3	86.17	23 30	13.04	58	85.10	32 30	13.69	30	36.35	32 13	15.09	32	36.80	49 19	14.49	5	30.30	55 58
14.22	12	88.25	25 36	15.37	9 0	85.45	30 14	11.60	41	38.94	34 51	15.65	33	36.88	45 16	14.94	9	31.17	53 11
15.09	25	91.50	22 44	13.73	1	85.70	32 57	14.16	8 35	79.56	41 34	15.16	35	37.52	46 20	15.65	15	32.51	57 32
12.22	31	92.91	22 28	15.65?	5	86.58	32 18	14.61	45	81.93	42 17	13.45	8 40	80.70	50 06	14.94	16	32.89	56 45
15.16	36	94.17	21 31	13.60	5	86.66	38 09	15.16	56	84.64	42 44	14.74	46	82.19	57 45	10.80	19	33.64	55 04
13.49	47	96.88	22 44	14.38	8	87.34	39 30	15.65	9 2	86.06	43 11	12.97	56	84.60	55 50	13.69	23	34.64	57 27
14.49	49	97.40	24 35	13.92	8	87.50	33 14	15.31	8	87.37	48 41	13.96	9 2	85.88	50 47	15.65	26	35.37	57 41
13.73	54	98.67	28 57	14.49	10	87.90	35 21	13.96×	8	87.48	42 52	14.74	3	86.16	56 16	14.81	31	36.56	52 10
12.16	55	98.78	29 53	15.65	15	89.14	31 22	14.32	12	88.46	47 34	15.65	17	89.67	57 14	14.61	38	38.08	51 10
14.81	55	98.86	28 14	15.46	24	91.32	32 01	15.65	20	90.38	46 08	14.44	19	90.14	50 38				
14.74	10 1	0.29	26 26	14.22×	25	91.45	33 02	14.44	21	90.54	45 12	15.65	22	90.73	58 28				
15.65	7	1.69	27 29	15.65	33	93.51	30 23	13.30	35	94.02	45 45	15.65	30	92.67	53 16				
15.65	10	2.46	29 53	9.71*	40	95.19	34 58	12.38	36	94.14	48 48	15.46	36	94.18	56 43				
15.65	15	3.74	23 20	13.92	43	96.89	35 45	14.49	42	95.59	44 05	12.64	45	96.34	51 51				
13.69	19	4.48	25 26	14.61	53	98.39	32 34	14.32	44	96.12	43 10	15.46	50	97.53	53 57				
14.44	23	5.68	24 56	12.64	57	99.18	38 12	11.91	46	96.55	45 27	15.46	52	98.10	58 14				
13.33	24	5.92	22 30	15.65	58	99.55	33 35	13.56	48	97.18	49 38	15.65	58	99.61	54 42				
11.91	30	7.22	22 50	13.82	10 7	1.60	34 16	13.52	55	98.87	43 30	15.65	10 1	0.21	58 15				
14.44	34	8.22	23 42	14.81	8	1.97	37 26	15.65	56	99.10	41 30	14.06	14	3.39	53 33				
13.73	35	8.35	27 58	15.46	12	3.02	34 10	13.52	58	99.52	45 05	12.80	17	4.04	52 35				
13.96	37	9.06	29 51	14.16	13	3.18	39 14	15.65	58	99.55	49 07	14.81	20	4.84	53 26				
13.82	41	9.95	26 31	15.31	28	6.86	37 30	15.65	10 3	0.68	49 56	15.65	31	7.46	58 08				
13.92	43	10.31	23 10	15.65	31	7.59	38 26	12.06	3	0.75	46 27	15.65	31	7.46	55 26				
15.46	48	11.63	25 02	8.57*	38	9.10	32 55	15.09	4	0.86	48 25	14.81	32	7.63	55 08				
14.94	52	12.64	20 18	13.49	44	10.67	35 32	15.65	11	2.65	43 11	14.49	32	7.65	59 24				
10.10*	56	13.44	20 14	15.65	49	11.81	35 53	15.46	13	3.20	47 26	15.09	32	7.83	53 56				
14.22	11 0	14.58	26 50	14.61	51	12.24	31 43	14.94	25	6.08	46 43	13.92	34	8.32	52 31				
13.60	6	15.93	25 26	14.44	52	12.62	36 35	11.75	29	7.05	48 52	11.34	44	10.69	51 14				
15.46	6	16.07	23 45	11.18	59	14.23	35 59	15.65	50	12.01	41 58	14.44	46	11.23	52 21				
14.49	16	18.49	25 57	10.78	11 7	16.21	36 34	14.49?	50	12.09	48 29	15.65?	51	12.29	54 33				

25 prec. + 83 sec. — 6′ 11″.

Area 78. Centre for 1900: $10^h\ 13^m + 15°\ 10'$.

+ 14°, + 15°

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′ y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.99	11 13	74.21	39 37	15.90	15 57	42.79	39 05	15.90	16 21	48.58	48 50	14.14	16 6	44.84	59 04	15.44	15 2	29.38	1 48
15.14	17	74.97	37 52	15.26	16 2	43.98	39 50	12.60	31	50.95	44 21	14.40	7	45.08	51 28	15.08	3	29.67	7 48
11.88	22	76.31	37 21	11.88	6	45.10	35 12	14.68	33	51.56	40 19	15.71	15	47.05	52 57	13.09	5	30.14	5 54
13.43	22	76.39	30 40	15.90	12	46.54	36 16	15.71	36	52.29	43 06	14.25	16	47.39	54 05	14.51	6	30.42	5 59
15.71	29	78.09	31 12	15.90	15	47.25	36 32	14.40	11 15	74.63	53 11	15.90	17	47.52	55 08	14.79	10	31.28	5 24
14.96	40	80.66	39 36	15.26	28	50.26	30 31	14.30	18	75.32	57 07	15.71	17	47.69	56 01	14.30	13	32.01	6 54
15.26?	46	82.16	36 56	14.85	11 21	76.11	43 54	14.25	26	77.37	56 25	15.44	18	47.84	58 41	15.90	17	33.14	1 58
14.56	57	84.71	31 33	15.02	28	77.71	40 25	13.80	30	78.30	58 27	15.14	28	50.33	56 58	14.30	22	34.31	2 40
14.68	58	85.11	37 35	15.90	34	79.12	49 22	14.68	30	78.37	51 59	12.60	34	51.73	56 56	13.89	23	34.43	8 09
14.04	12 2	86.00	35 47	14.14	40	80.62	44 23	10.08	34	79.34	50 10	14.96	36	52.19	55 06	14.40	26	35.32	1 17
15.90	6	86.91	36 22	15.08	51	83.40	41 12	14.85	37	80.04	55 47	14.40	11 12	73.89	2 27	14.25	28	35.66	9 56
11.76	6	86.95	32 16	15.38	12 2	85.94	48 52	14.04	55	84.22	55 27	14.68	15	74.74	3 48	15.71	37	37.98	5 03
15.56	19	90.00	31 20	15.90	5	86.62	47 02	14.56	12 1	85.85	53 48	14.79	17	75.20	8 39	15.90	39	38.37	5 43
15.90	20	90.32	36 35	15.08	5	86.77	44 50	15.90	9	87.73	55 47	15.90	26	77.27	8 08	15.14	45	39.78	5 06
15.90	22	90.82	36 48	15.26	6	86.93	49 03	13.09	12	88.47	58 49	15.08	26	77.43	3 26	15.14	57	42.83	8 11
13.80	23	91.12	38 29	11.81	8	87.42	44 20	13.66	29	92.43	58 27	15.90	32	78.66	2 36	14.51	16 13	46.60	4 14
11.88	27	91.90	31 34	15.90	9	87.75	41 46	15.14	32	93.23	58 43	14.25	34	79.15	8 39	14.85	27	49.97	4 11
15.90	33	93.53	31 38	14.68	12	88.32	44 12	13.13	33	93.37	53 02	14.96	35	79.56	4 52	15.90	33	51.49	6 33
14.96?	45	96.40	35 38	14.79	13	88.74	41 05	12.34	35	93.90	55 33	15.26	43	81.43	0 55	15.90?	11 10	73.47	12 05
15.90	13 0	0.08	38 53	15.14	16	89.42	47 07	14.40	39	94.87	55 46	13.43	48	82.55	2 59	14.40	21	76.12	15 03
14.85	17	4.12	39 04	14.85	20	90.23	43 24	13.99	39	94.95	58 07	12.80	51	83.24	5 34	15.08	21	76.18	12 24
14.30	20	4.90	31 06	15.90	39	94.98	43 36	14.56	45	96.28	52 46	13.56	55	84.26	5 38	15.90	22	76.28	17 58
14.14	22	5.20	31 07	14.68	40	95.17	40 08	14.30	57	99.18	56 21	13.89	12 12	88.41	4 31	15.90	27	77.46	19 22
12.06 :	24	5.80	31 18	15.71	44	96.16	48 43	15.90	59	99.69	55 27	15.90	18	89.78	9 42	15.08	30	78.17	17 07
15.26	25	5.97	36 21	14.30	47	96.82	47 32	15.90	13 0	99.95	55 28	13.99	19	90.07	4 50	14.96	37	79.96	11 29
15.08	29	7.01	32 16	12.23	13 13	3.21	43 48	15.90	6	1.55	52 36	13.00	25	91.59	0 50	12.60	39	80.46	13 49
15.08	31	7.56	30 38	13.35	21	5.18	41 21	13.00	15	3.68	57 54	14.68	28	92.34	4 32	14.56	41	80.86	11 00
15.14	38	9.08	30 21	12.80	27	6.52	46 27	14.25	18	4.36	52 41	15.56	29	92.46	5 37	15.38	55	84.23	19 25
15.90	45	10.80	37 26	15.56	39	9.52	43 51	15.90	21	5.04	59 11	13.52	35	93.89	5 37	15.90	12 1	85.78	16 52
14.25?	54	13.14	36 35	12.06	56	13.57	47 24	15.14	24	5.84	59 53	15.08	37	94.49	9 40	14.51	8	87.43	16 24
15.08	58	13.99	32 09	13.22	14 0	14.60	42 25	14.30	44	10.64	57 08	15.44	38	94.71	8 40	14.96	11	88.24	11 46
14.79	14 0	14.60	34 11	15.08	12	17.32	46 08	14.25	14 3	15.14	51 59	15.90	41	95.31	2 11	15.90	11	88.29	17 50
15.44?	3	15.32	35 15	11.44	24	20.22	41 32	15.38	7	16.25	50 56	13.94	47	96.81	9 53	12.72	20	90.32	12 56
14.85	13	17.69	30 21	10.41	30	21.86	40 34	14.04	17	18.70	56 16	12.80	47	96.97	8 07	13.22	27	92.12	12 23
11.43	15	18.04	35 40	10.00	31	21.93	41 20	15.90	19	19.18	58 16	15.71	50	97.58	2 08	13.99	39	94.92	15 40
15.90	19	19.09	34 42	15.08	45	25.43	46 53	13.22	25	20.45	56 59	12.80	52	97.96	5 11	14.56	43	95.84	18 48
15.90	20	19.25	35 05	15.90	52	27.09	42 17	13.56	27	21.07	58 06	15.44	13 20	4.85	9 39	14.85	46	96.63	12 00
15.44	25	20.62	32 04	14.68	52	27.15	43 33	15.44	34	22.62	58 42	14.14	29	7.00	6 12	10.34	47	96.94	18 14
15.71	53	27.32	33 37	14.85	56	27.95	42 19	15.56	35	23.00	55 38	15.56	37	8.82	8 21	14.85	51	97.88	11 27
14.79	15 12	32.04	30 25	13.99	15 3	29.82	43 05	15.38	45	25.47	50 40	11.58	45	10.97	3 22	14.51	54	98.48	19 34
14.79	16	32.87	33 27	14.68	15	32.67	42 37	10.16*	15 6	30.53	50 49	13.89	57	13.69	9 44	13.99	54	98.66	18 32
15.90	22	34.40	32 44	14.30	16	32.80	46 34	15.90	8	31.00	52 17	14.04	59	14.30	3 34	14.04	58	99.64	18 44
14.68	28	35.87	38 49	14.85	20	33.92	40 32	15.14	9	31.13	58 39	14.30	14 7	16.17	9 44	12.53	13 3	0.75	10 10
13.80	31	36.42	37 28	14.30	20	33.97	42 28	14.79	9	31.23	59 05	13.56	14	17.94	8 00	13.84	6	1.41	10 29
14.85	31	36.45	38 24	15.08	42	39.17	48 39	12.60	11	31.71	52 10	13.66	24	20.20	7 31	14.79	29	7.05	11 37
14.79	34	37.38	33 07	15.26	45	39.95	42 59	13.80	23	34.47	52 53	11.67	27	21.07	3 19	14.68	33	7.87	12 09
15.90	35	37.44	38 24	12.60	51	41.28	45 51	15.90	28	35.80	58 53	15.56	33	22.37	3 44	15.90	35	8.55	17 28
14.51	39	38.53	32 24	15.14	16 0	43.43	46 48	13.80	31	36.46	53 20	14.14	33	22.37	5 05	10.31*	53	12.69	18 36
14.40	44	39.78	37 58	13.52	3	44.18	41 56	13.75	56	42.53	58 06	13.00	55	27.87	1 59	9.43*	54	13.07	10 13
13.22	54	42.10	32 32	14.85	15	47.05	48 53	15.90	16 4	44.52	59 13	14.14	58	28.61	4 28	14.51	54	13.07	13 13

25 prec. + 81 sec. — 7′ 28″.

Area 78.

251—300				301—350				351—400				401—450				451—458			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.56	14 1	14.66	17 37	15.90	12 26	91.69	23 34	12.88	11 28	77.76	35 11	15.90	15 29	35.78	35 35	12.72	15 2	29.28	48 45
9.52	19	19.11	10 43	15.56	29	92.51	25 33	15.56	29	78.03	33 42	15.71	45	39.67	33 47	15.90	13	32.07	44 42
14.30	21	19.61	19 08	13.89	41	95.49	29 37	15.90	33	79.01	30 26	15.08?	46	39.98	34 39	14.96	15	32.41	45 01
14.56	24	20.33	11 27	11.88	49	97.39	25 31	13.35	37	79.95	33 10	14.79	51	41.09	32 02	15.90	37	37.89	47 02
15.90	29	21.43	11 27	14.40	54	98.57	21 21	13.75	38	80.34	35 04	10.95	16 0	43.46	30 49	15.26	44	39.36	40 31
11.48	31	21.94	15 26	15.14	13 1	0.15	20 08	14.40	47	82.43	31 55	14.68	4	44.41	32 27	13.99	16 15	46.88	46 31
13.99	33	22.51	16 49	13.89	22	5.38	21 55	15.90?	57	84.82	37 24	14.30	21	48.39	34 50	15.56	21	48.37	47 57
14.56	38	23.70	15 03	15.14	32	7.80	20 47	11.52	12 1	85.90	30 51	11.71	31	50.87	30 43	12.60	34	51.61	49 48
14.96	41	24.29	15 48	14.04	36	8.77	26 37	15.38	3	86.35	39 00	15.90	37	52.27	36 05				
15.71	56	27.89	17 17	13.35	39	9.34	20 42	15.38	4	86.39	39 24	15.71	11 22	76.52	48 20				
14.56	57	28.33	12 21	14.25	45	10.88	25 00	15.26	7	87.22	36 11	12.06	30	78.44	42 45				
14.25	15 12	31.88	11 38	12.60	54	12.94	26 19	15.14	31	92.99	35 43	14.85	31	78.60	41 03				
14.79	13	32.08	14 47	13.80	14 7	16.22	20 56	12.88	34	93.80	39 12	15.90	42	81.18	44 07				
15.14	15	32.47	18 39	15.90?	13	17.53	26 07	14.30	40	95.11	31 54	11.71	47	82.40	48 04				
15.08	17	33.05	19 25	14.56	13	17.64	28 55	13.43	42	95.54	31 55	13.75	48	82.64	47 43				
15.90	17	33.07	15 51	15.71	15	18.01	28 27	14.40	53	98.40	30 07	15.14	53	83.94	42 48				
13.09	19	33.44	10 39	15.90	17	18.51	20 48	15.90	55	98.68	39 54	15.90	56	84.52	49 46				
14.40	21	33.91	14 21	12.72	18	18.79	20 33	11.16	55	98.75	31 10	15.26	12 3	86.28	49 40				
15.90	23	34.48	18 28	12.60	19	19.04	24 42	14.68	56	98.96	30 26	14.04	19	90.22	44 14				
14.85	31	36.34	18 29	15.90	21	19.42	26 58	13.09	13 5	1.11	31 00	15.90	27	92.08	49 15				
13.75	50	41.12	15 40	9.89*	29	21.50	25 23	15.90	5	1.25	38 53	15.90?	32	93.38	48 45				
15.90	56	42.47	10 12	12.60	31	22.01	27 21	11.88	8	1.93	31 11	14.85	35	93.94	48 16				
13.52	58	42.85	18 28	14.79	33	22.34	27 29	13.75	12	2.94	38 38	12.60	44	96.10	44 37				
12.53	16 0	43.41	10 47	14.04	38	23.74	22 13	14.85	14	3.41	38 34	15.56	44	96.11	49 04				
14.20	5	44.62	10 27	13.22	42	24.53	26 10	14.30	18	4.35	37 26	15.14	46	96.67	49 21				
15.90	13	46.48	17 58	13.22	42	24.62	20 51	15.14	23	5.45	32 04	15.14	13 0	99.95	46 34				
14.30	19	47.92	13 17	13.89	48	25.96	24 13	15.56	33	7.99	35 07	14.04	3	0.64	49 35				
15.71	19	47.95	11 01	15.90	49	26.28	21 56	12.68	46	11.00	30 39	15.14	11	2.58	43 06				
13.66	20	48.20	16 34	14.30	55	27.82	25 15	14.79?	50	12.11	38 03	14.56	17	4.15	41 38				
15.90	20	48.25	16 04	15.90	57	28.17	24 36	14.25	54	13.07	36 24	15.71	17	4.19	40 45				
13.99	23	48.86	12 36	13.52	15 4	29.98	28 08	14.96	55	13.20	38 41	15.90	23	5.53	49 02				
14.68	27	49.98	12 40	15.90	24	34.57	28 54	15.38	14 8	16.33	31 31	14.51	32	7.73	44 52				
15.90	31	50.95	17 58	15.90	24	34.77	22 00	15.71	18	18.86	39 22	15.90	35	8.41	49 00				
14.96	37	52.41	12 19	14.79	26	35.14	28 26	11.81	20	19.38	35 01	13.89	39	9.46	41 11				
12.60	11 13	74.14	26 12	12.06	31	36.29	20 42	15.56	30	21.69	38 50	15.71	49	11.81	41 17				
15.38	25	77.05	22 04	14.96	31	36.43	22 15	15.38	32	22.09	36 31	13.66	54	12.95	44 21				
14.85	30	78.40	25 53	15.90	31	36.46	24 56	15.71	39	23.80	31 50	15.71?	56	13.44	48 52				
13.89	32	78.77	28 44	15.44	35	37.30	21 31	14.40	44	25.11	39 16	15.56	56	13.52	47 18				
12.88	33	78.93	28 46	15.08	36	37.61	28 46	15.71	48	26.00	39 00	13.52	14 0	14.33	42 01				
15.90	33	79.06	26 47	15.14	50	41.00	28 38	15.71	49	26.27	38 54	15.08	1	14.72	40 40				
13.89	38	80.29	24 16	13.43	16 3	44.00	27 57	15.08	53	27.24	30 14	11.21	2	15.02	40 28				
14.56	53	83.91	26 06	15.90	6	44.89	26 31	15.14	55	27.60	34 02	15.56?	3	15.05	40 42				
15.90	12 3	86.22	29 55	15.14	18	47.70	28 55	14.96	55	27.77	37 04	14.51?	13	17.48	48 52				
15.90?	7	87.21	22 06	15.14	22	48.80	21 48	12.42	15 2	29.33	34 10	14.30	14	17.74	45 20				
15.90?	8	87.41	22 07	14.79	23	48.81	23 25	13.00	12	31.82	37 19	15.90	32	22.09	46 33				
14.96	8	87.47	27 36	13.75	27	49.83	21 44	15.90	12	31.87	39 54	14.30	44	24.91	41 31				
14.85	12	88.43	27 07	6.10[1])	28	50.10	28 56	14.96	16	32.86	30 48	14.56	46	25.45	46 43				
12.60	14	88.95	21 57	15.56	32	50.98	23 00	12.60	24	34.72	33 18	15.56	51	26.75	47 17				
15.71?	18	89.98	24 10	11.71	11 9	73.20	32 23	14.79	27	35.44	37 53	13.09	58	28.49	46 19				
14.62	23	91.12	29 59	13.47	20	75.94	30 25	14.56	28	35.64	30 38	15.71	15 0	28.79	41 48				

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[1]) Vis. magn. from Harv. Ann. **50** reduced to photogr. magn. by Harv. Ann. **71**, I p. 7.

25 prec. + 81 sec. — 7′ 29″.

Area 79. Centre for 1900: $11^h\ 17^m + 14° 50'$.

+ 14°, + 15°

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$y+50'$	Int. magn.	α	x	$\frac{y+50'}{y-10'}$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.17	15 5	72.13	14 08	13.80	15 6	72.28	25 09	16.17	17 22	5.40	39 33	10.78	16 23	91.01	47 02	13.62	15 28	77.88	53 20
16.17	22	76.35	12 26	15.26	30	78.09	29 20	15.75	27	6.42	33 48	13.98	33	93.44	40 47	15.72	30	78.28	52 17
15.15	26	77.11	14 23	13.73	33	79.05	21 20	15.83	38	9.08	33 38	15.83	33	93.57	46 28	15.15	52	83.48	54 45
16.17	26	77.33	14 26	15.08	34	79.17	22 31	13.44	41	9.94	32 44	13.91	36	94.13	49 39	14.71	53	83.80	54 47
15.01	32	78.74	16 59	16.17	41	80.92	26 43	16.17	41	10.00	31 16	15.01	39	94.81	46 53	13.26	54	84.15	54 51
12.37	35	79.51	12 14	13.80	43	81.29	25 35	13.80	47	11.28	31 53	16.17	43	95.82	47 13	16.17	55	84.26	50 30
12.90	46	82.08	14 42	15.72	52	83.51	23 49	15.72	47	11.48	33 33	15.08	48	97.02	45 45	15.53	16 8	87.47	57 09
16.17	51	83.24	11 13	14.12	55	84.25	29 35	15.98	48	11.64	35 45	15.98	17 9	2.19	44 03	13.08	11	88.07	54 23
10.08	16 3	86.07	14 39	16.17	16 1	85.62	23 19	12.20	52	12.62	38 43	14.71	21	5.04	47 36	13.26	11	88.22	55 51
16.17	7	87.06	13 11	13.62	5	86.79	27 05	15.26	18 18	18.82	31 43	12.54	25	6.16	47 18	13.62	12	88.45	56 24
13.26	17	89.64	14 36	15.75	11	88.05	23 32	15.53	20	19.33	35 36	13.73	28	6.70	46 53	11.15	13	88.69	50 34
15.83	30	92.67	16 04	15.08	13	88.68	22 42	15.64	22	19.75	30 23	16.17	40	9.62	46 16	16.17	14	88.82	56 31
16.17	30	92.71	14 20	15.19	15	89.13	27 12	16.17	33	22.61	38 37	16.17	45	10.84	41 15	16.17	22	90.84	55 58
16.17	36	94.21	16 03	15.45	27	91.90	23 18	16.17	39	24.03	32 13	12.83	54	12.95	49 59	16.17	22	90.84	54 17
14.64	38	94.69	17 17	11.87	32	93.10	21 06	12.54	40	24.22	38 33	15.56	57	13.88	43 35	16.17	24	91.32	53 47
15.19	41	95.44	12 18	15.01	35	93.96	21 10	15.01	43	24.92	38 50	14.34	18 6	16.08	47 22	14.45	24	91.42	57 38
15.72	43	95.96	14 23	16.17	50	97.55	29 07	13.80	43	25.03	34 18	16.17	8	16.56	48 32	15.83	57	99.37	53 18
15.08	44	96.00	12 00	13.44	53	98.37	26 48	15.49	44	25.19	39 57	16.17	20	19.26	44 09	15.98	17 0	99.99	59 18
16.17	58	99.60	12 05	15.01	56	98.95	23 21	15.01	48	26.25	36 45	14.78	20	19.27	43 30	10.72	9	2.09	59 39
15.56	17 11	2.73	14 00	16.17	57	99.18	26 30	14.34	57	28.32	32 06	10.94	28	21.39	46 49	15.56	14	3.32	50 34
12.37	17	4.07	19 43	13.62	58	99.56	28 45	8.88	19 12	31.88	30 10	15.72	31	22.02	41 50	14.97	14	3.44	53 42
12.54	17	4.12	10 13	9.73*	17 8	1.85	29 37	16.17	19	33.67	35 35	15.83	51	26.76	47 08	14.30	17	4.13	59 39
12.37	20	4.83	12 42	15.64	13	3.26	28 37	15.83	24	34.84	37 35	15.01	52	27.03	44 49	14.89	34	8.21	57 00
16.17	27	6.59	19 07	12.20	21	4.98	24 08	13.80	26	35.44	35 44	14.60	19 2	29.39	45 04	14.97	39	9.50	57 59
16.17	37	8.96	19 06	15.45	32	7.77	20 58	13.08	28	35.72	31 47	8.92	6	30.36	43 05	9.09*	42	10.05	52 20
15.72	38	9.20	13 18	13.26	18 39	23.91	22 09	13.08	28	35.80	30 12	12.90	6	30.58	43 27	13.08	55	13.31	54 16
13.08	40	9.72	17 28	15.72	19 1	29.36	22 48	15.72	32	36.68	34 22	14.82	29	35.93	49 11	12.03	59	14.26	55 17
15.53	54	13.04	11 21	8.48*	3	29.90	27 09	11.52	33	36.97	34 41	14.34	29	36.09	44 58	10.76	18 9	16.64	57 16
15.98	18 2	15.12	10 10	11.12	10	31.49	27 09	15.08	38	38.12	32 30	16.17	37	37.92	46 04	16.17	11	17.13	53 47
15.75	16	18.50	13 29	16.17	18	33.46	28 35	12.90	46	40.14	37 01	15.45	39	38.50	48 38	16.17	14	17.86	57 10
13.08	20	19.39	19 48	14.16	29	36.17	28 13	14.34	49	40.82	30 46	14.45	46	40.03	40 47	15.56	16	18.47	55 41
15.98	41	24.52	16 03	13.80	36	37.66	26 58	15.98	51	41.29	38 09	16.17	46	40.19	45 54	14.71	27	21.08	57 59
16.17	19 2	29.55	13 54	13.69	40	38.68	29 43	15.83	20 1	43.83	30 19	15.72	53	41.78	40 49	13.44	31	22.09	52 00
13.91	3	29.87	15 08	12.54	20 12	46.37	24 33	16.17	2	43.95	30 19	13.98	58	43.01	45 41	16.17	37	23.40	55 03
16.17	14	32.57	16 37	14.64	23	49.10	29 52	14.45	3	44.25	36 51	16.17	20 2	43.93	45 29	14.34	43	24.91	52 03
15.83	25	35.24	13 36	15.72	24	49.42	28 01	14.34	8	45.50	34 16	15.45	5	44.69	47 36	15.01	47	25.93	54 22
16.17	34	37.43	12 24	14.23	15 5	72.28	34 23	16.17	15 1	71.15	42 02	15.45	16	47.34	40 57	14.82	55	27.77	57 12
12.20	35	37.58	10 13	13.44	13	74.21	31 52	15.64	11	73.62	43 48	12.90	23	49.06	43 50	14.16	19 5	30.23	50 17
11.50	40	38.73	14 43	15.98	30	78.14	33 37	16.17	16	74.80	43 30	15.83	14 56	70.14	50 50	13.08	14	32.31	57 10
16.17	44	39.84	19 28	15.38	31	78.49	35 47	14.71	32	78.69	45 52	16.17	59	70.78	57 07	15.26	20	33.73	54 14
16.17	51	41.34	12 38	14.52	38	80.28	38 09	12.54	37	79.96	47 26	16.17	15 1	71.32	55 29	14.71	51	41.20	56 58
14.71	58	43.14	12 21	16.17	16 22	90.89	34 37	14.56	39	80.50	40 32	15.83	4	72.03	55 05	16.17	20 0	43.37	55 35
15.15	58	43.14	12 29	14.78	37	94.32	30 47	16.17	59	85.17	40 48	15.26	10	73.47	56 18	15.83	2	43.98	58 06
14.09	20 2	44.09	16 40	15.34	38	94.73	36 14	15.26	59	85.23	45 07	16.17	16	74.82	56 41	14.09	4	44.36	57 27
14.41	2	44.09	10 29	16.17	39	94.88	31 30	15.72	16 2	86.02	48 57	12.90	18	75.43	58 43	16.17	14	46.96	57 17
15.15	12	46.53	18 06	15.08	46	96.64	31 40	16.17	5	86.60	48 18	15.75	19	75.55	55 15	12.54	15	47.09	53 45
15.15	16	47.61	19 02	16.17	49	97.29	31 14	12.20	8	87.48	41 55	16.17	23	76.63	50 27	15.83	21	48.58	51 46
12.90	26	49.89	10 32	15.98	17 2	0.47	32 16	12.97	12	88.41	40 03	12.54	26	77.25	54 35	15.56	15 3	71.78	4 58
12.90	15 2	71.46	28 47	16.17	6	1.55	36 44	15.08	15	89.14	41 15	16.17	26	77.31	57 27	15.98	6	72.51	1 02
16.17	4	71.91	23 08	15.56	9	2.11	33 19	15.19	20	90.36	41 34	14.78	26	77.33	52 37	16.17	21	76.08	4 45

25 prec. + 78 sec. — 8′ 13″.

11^h Area 79. $+15^\circ$

251—280				281—310				311—340				341—370				371—395			
Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.89	15 23	76.59	7 49	16.17	18 25	20.45	0 57	11.26	15 58	84.97	15 27	15.64	18 48	25.93	14 42	16.17	17 48	11.54	29 38
13.62	31	78.61	7 22	13.80	29	21.57	1 06	15.19	58	85.14	10 47	15.72	54	27.40	11 49	10.36	51	12.36	24 13
12.72	32	78.76	9 37	16.17	30	21.76	3 18	15.38	59	85.37	18 45	16.17	56	28.03	19 09	13.55	54	12.98	20 06
15.72	39	80.41	8 44	13.73	45	25.36	0 42	13.62	16 12	88.33	15 36	12.72	19 11	31.70	13 47	15.98	18 2	14.86	26 30
13.44	41	81.01	6 03	15.60	56	28.08	9 37	15.08	20	90.33	17 56	13.44	26	35.20	10 34	15.98	2	15.02	27 52
16.17	51	83.24	1 26	16.17	58	28.55	0 45	14.23	28	92.24	15 11	15.45	34	37.25	16 54	11.87	7	16.22	21 19
12.03	16 24	91.23	4 51	12.97	19 1	29.29	9 38	14.52	29	92.45	13 32	16.17	35	37.30	17 21	11.87	12	17.27	22 57
14.71	25	91.61	4 15	14.16	11	31.54	1 15	15.64	30	92.69	11 15	15.34	37	37.93	17 26	15.34	14	17.85	24 27
16.17	30	92.84	7 23	15.98	14	32.30	8 06	13.44	33	93.54	16 18	14.27	57	42.78	14 14	14.34	21	19.58	24 26
14.45	32	93.14	2 43	13.91	22	34.22	9 23	14.34	37	94.55	14 35	14.97	20 8	45.44	18 06	15.75	23	20.04	22 33
15.01	32	93.31	9 13	15.83	23	34.40	4 40	15.45	47	96.88	17 46	15.56	19	47.91	12 00	15.83	30	21.57	21 46
15.64	33	93.56	3 16	15.19	35	37.43	2 05	15.60	48	96.99	10 07	13.62	20	48.17	15 20	15.98	32	22.27	20 49
15.08	34	93.64	2 55	9.95*	44	39.55	1 04	15.34	51	97.83	11 50	14.71	15 5	72.39	25 53	12.03	48	25.99	27 34
16.17	40	95.06	2 14	13.08	46	40.01	7 52	16.17	56	99.01	18 45	16.17	12	73.89	29 10	14.82	50	26.44	24 37
12.37	40	95.26	4 23	11.65	48	40.47	5 48	14.27	58	99.43	11 09	14.52	15	74.76	27 26	15.38	56	28.00	28 20
15.01	44	96.05	0 45	15.98	51	41.20	9 25	14.67	17 3	0.78	19 56	15.53	21	76.06	29 27	16.17	19 4	29.80	27 13
15.15	46	96.64	5 23	16.17	20 0	43.34	6 34	14.82	4	0.95	18 14	16.17	21	76.15	27 59	13.80	21	33.87	25 34
15.08	56	98.97	1 06	13.62	8	45.49	8 20	15.64	15	3.71	16 12	15.34	23	76.52	28 22	10.50	22	34.27	27 53
16.17	56	99.07	1 55	15.72	9	45.61	2 09	15.64	21	4.97	11 20	16.17	26	77.35	22 24	16.17	35	37.37	21 33
16.17	17 5	1.12	2 49	13.80	11	45.99	3 30	12.03	24	5.69	16 49	14.41	30	78.32	28 39	15.08	35	37.42	22 52
12.72	10	2.53	6 00	15.19	12	46.22	7 13	15.34	27	6.63	15 24	15.26	37	79.93	23 25	13.26	39	38.28	22 14
15.83	21	5.12	8 06	13.62	15	47.18	7 30	12.20	33	8.05	10 30	12.20	38	80.18	25 47	14.93	43	39.20	20 18
15.26	40	9.65	7 39	10.94	22	48.83	6 02	11.62	51	12.27	11 09	16.17	40	80.78	23 21	12.54	47	40 22	26 45
15.72	40	9.66	7 41	15.01	15 10	73.45	11 41	15.56	56	13.61	17 04	15.72	47	82.31	27 30	12.54	57	42.76	26 59
15.38	53	12.82	8 09	11.03	11	7 .76	18 40	13.44	18 2	14.86	18 37	14.89	16 0	85.58	28 05	16.17	20 24	49.18	26 27
16.17	18 3	15.29	6 35	15.72?	20	75.94	12 29	12.97	3	15.10	19 48	15.45	32	93.17	25 50				
16.17	11	17.08	9 00	14.97	33	78.93	12 04	16.17	30	21.71	14 04	15.53	38	94.73	29 01				
14.71	14	17.93	5 48	14.71	41	80.97	14 28	16.17	31	21.91	14 26	13.98	17 11	2.70	29 03				
15.83	16	18.24	3 42	15.38	46	82.08	16 57	13.80	37	23.34	15 46	15.19	22	5.19	21 40				
13.73	18	18.72	2 42	14.52	57	84.84	15 20	15.83	39	23.89	14 40	15.56	45	10.81	22 00				

25 prec. + 78 sec. — 8′ 13″.

12^h Area 80. Centre for 1900: $12^h\ 12^m + 15^\circ\ 0'$. $+14^\circ$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.77?	9 48	68.11	21 09	13.90	12 14	3.50	29 54	11.81	13 24	20.39	27 43	15.39	14 42	39.14	24 07	16.35	10 10	73.38	39 59
16.16?	52	68.96	20 27	14.64	19	4.66	21 30	13.97	38	23.61	23 34	15.74	45	39.88	21 24	14.13	25	76.97	34 31
12.41	58	70.47	22 25	16.35	21	5.02	25 18	11.48	52	27.24	28 19	15.84	45	40.06	20 27	16.35?	11 24	91.30	34 07
14.64	10 2	71.52	23 14	15.84	40	9.68	20 40	14.47	14 11	31.65	20 09	16.35	47	40.52	28 48	15.56	25	91.55	39 09
16.35	15	74.56	28 08	14.30	42	10.28	27 20	14.71	22	34.43	20 01	7.67*	15 1	43.76	24 46	15.77	26	91.68	34 38
12.11	33	79.05	25 12	14.74	46	11.26	20 36	13.32	22	34.45	24 43	16.35	9 50	68.58	32 12	15.74	26	91.81	35 44
12.26	54	84.03	23 59	12.86	13 0	14.60	27 12	10.39	24	34.96	29 10	16.35	10 3	71.65	31 49	12.86	27	91.99	32 43
12.86	11 7	87.18	25 40	16.35	17	18.60	26 53	15.60	29	36.07	23 15	16.35	8	72.80	31 11	16.35	41	95.31	31 50
13.64	20	90.26	20 37	11.48	23	20.14	22 19	12.41	32	36.75	26 13	14.64	8	72.87	35 21	16.16	43	95.99	39 01
13.97	58	99.61	23 10	14.13	24	20.36	28 30	16.35	40	38.83	26 31	13.64	9	73.22	35 24	16.16	59	99.79	33 45

25 prec. + 76 sec. — 8′ 20″.

Area 80.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$ $y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.01	12 15	3.52	33 11	13.48	13 47	25.91	42 34	15.84	14 51	41.40	52 09	15.60	11 23	91.02	15 25	14.57	12 31	7.51	21 48
16.35	15	3.56	37 16	15.39	58	28.58	42 03	13.97	56	42.51	58 25	16.16	26	91.78	17 04	15.25	32	7.71	25 30
16.35	16	3.84	35 22	15.32	14 6	30.39	41 30	12.26	9 58	70.65	5 21	12.11	29	92.47	10 45	16.35	35	8.33	29 14
16.16	34	8.14	30 02	15.32	22	34.23	48 35	12.35	10 5	72.34	9 19	13.32	48	97.08	17 41	16.35	35	8.52	26 59
16.35	36	8.60	39 01	15.05	22	34.36	44 20	11.45	13	74.16	6 21	14.71	12 3	0.68	10 21	15.74	42	10.14	26 48
14.47	53	12.81	34 09	15.18	25	35.26	49 56	16.35	13	74.28	1 05	14.10	6	1.32	19 47	16.16	45	10.89	22 00
13.48	13 3	15.34	33 08	15.67	42	39.23	48 53	14.30	29	78.01	2 01	14.54	28	6.86	17 05	14.64	13 2	14.83	22 16
13.97	4	15.45	33 49	16.01	55	42.21	48 03	16.01	36	79.75	1 29	16.35	33	7.91	12 18	15.49	13	17.65	21 10
15.32	31	22.05	34 13	15.77	56	42.45	48 27	16.35	38	80.25	6 23	15.74	39	9.37	18 52	12.86	14	17.92	21 52
13.32	35	23.05	33 05	16.35	15 0	43.53	47 28	16.35	39	80.44	1 40	14.40	54	12.95	14 40	15.42	17	18.47	23 02
13.71	48	26.19	39 27	15.25	3	44.22	45 00	14.98?	43	81.45	5 27	16.35	56	13.39	18 08	12.86	24	20.30	23 54
15.77	49	26.33	38 52	13.64	12	46.44	44 34	16.35	48	82.57	4 34	16.01	13 13	17.69	15 00	16.35	29	21.38	23 57
16.35	54	27.67	34 45	13.80	13	46.56	42 28	12.71	11 5	86.79	6 01	13.48	20	19.42	13 00	10.71	45	25.39	21 13
16.35?	58	28.52	38 02	15.87	9 58	70.61	50 05	12.56	19	90.01	1 39	16.16	32	22.19	19 30	15.67	14 2	29.33	21 03
15.94	59	28.69	38 33	15.77	10 1	71.34	53 10	16.35	24	91.42	3 15	16.35?	38	23.58	17 20	13.01	4	29.86	28 10
16.35	14 0	29.05	30 16	16.35	11	73.68	58 07	15.42	37	94.39	8 59	16.01	14 3	29.77	11 21	14.40	7	30.61	21 44
12.86	13	32.26	31 59	16.35	14	74.39	50 18	13.48	12 10	2.51	1 38	12.56	18	33.37	15 39	16.16	10	31.39	24 14
16.35	19	33.70	32 25	13.32	27	77.57	59 26	16.16	15	3.59	8 49	16.35	22	34.20	16 31	12.71	26	35.22	26 01
15.22	30	36.27	35 35	11.81	32	78.70	57 35	16.35	26	6.16	7 57	13.01	28	35.79	18 50	16.35	29	35.87	28 22
16.35	43	39.48	33 00	16.35	48	82.62	54 41	13.48	27	6.59	3 34	14.57	31	36.41	13 45	16.35	59	43.15	26 32
13.32	48	40.69	37 26	16.35	11 0	85.41	51 02	16.35	28	6.82	8 59	15.25	36	37.62	17 26	15.94	15 14	46.83	27 14
13.01	15 0	43.62	36 25	15.56?	5	86.60	55 52	15.91	32	7.66	6 28	16.35	37	37.76	14 50	10.76	9 49	68.34	39 53
15.05	14	46.95	39 52	14.23	12	88.42	55 42	15.77	58	14.07	7 07	15.94	47	40.20	11 45	14.64	10 3	71.73	32 28
16.35	15	47.27	35 22	15.67	14	88.84	59 02	12.86	13 3	15.21	5 33	13.80	53	41.82	10 30	15.74	23	76.65	39 11
13.48	17	47.69	31 03	11.81	29	92.56	52 11	16.35	11	17.03	8 41	13.01	15 8	45.32	10 23	13.90	27	77.55	30 10
10.24	9 56	70.13	49 18	14.57	31	93.01	51 46	16.35	26	20.69	6 19	14.30	15	47.12	12 14	13.97:	31	78.65	37 25
13.97	10 4	71.95	45 51	15.29	43	95.97	50 32	14.13	29	21.41	2 55	16.35	9 50	68.65	22 59	16.35	49	82.86	37 10
16.35	6	72.55	43 10	14.98	54	98.60	57 01	14.20	47	25.79	3 37	16.01	53	69.47	21 03	9.96	53	83.83	35 56
16.35?	12	73.83	42 13	12.71	12 4	0.97	53 43	14.88	52	27.03	0 52	14.30	10 7	72.70	23 43	14.64	56	84.61	38 14
16.35	32	78.60	41 16	16.01	25	5.94	50 41	15.91	55	27.83	2 31	15.56	12	73.87	23 30	16.35	11 0	85.59	39 43
11.81	50	83.03	42 33	8.35	32	7.71	59 59	14.13	56	28.04	2 01	13.48	13	74.24	22 33	15.77	24	91.41	34 44
12.41	11 3	86.33	40 27	15.60	39	9.40	54 24	16.35	14 1	29.26	6 08	12.26	24	76.75	24 38	16.35	30	92.72	39 52
15.94	13	88.58	49 28	12.71	42	10.26	54 37	7.44*	16	32.78	5 57	11.58	30	78.22	27 32	16.01	31	93.00	30 25
15.77	22	90.88	42 09	15.74	53	12.91	59 22	15.84	41	38.89	7 18	14.98	30	78.35	27 08	16.01	50	97.64	39 51
10.77	28	92.38	42 52	16.35	13 2	14.94	50 33	16.35	46	40.15	8 38	12.41	31	78.59	22 14	16.16	52	98.09	36 51
15.74	39	94.91	48 21	13.01	6	15.84	56 10	14.67	50	41.15	9 37	11.75	33	79.08	29 52	15.74	12 1	0.23	32 18
12.56	39	94.92	41 51	12.86	12	17.31	52 53	13.16	51	41.21	2 45	15.77	53	83.83	23 22	16.35	6	1.48	33 46
14.81	40	95.16	42 32	12.86	12	17.38	57 42	15.74	53	41.83	5 34	5.04[1]	56	84.52	27 23	12.56	20	4.87	39 02
14.81	49	97.38	48 34	14.40	19	19.06	57 33	13.97	15 2	43.93	7 52	12.26	59	85.35	25 06	11.46	25	5.94	39 18
12.26	12 0	99.93	44 54	15.15	35	23.05	53 47	16.35	10 28	77.78	16 53	15.05	11 14	88.81	26 12	8.29	47	11.27	34 31
16.35	0	99.94	40 26	13.5ne	45	25.32	58 23	16.16	30	78.31	12 47	16.35	26	91.71	28 21	15.77	49	11.72	32 17
15.91	16	3.98	47 10	13.80	52	27.05	57 27	15.87	32	78.88	19 37	15.77	33	93.38	26 49	15.67	55	13.15	39 51
14.13	19	4.68	48 46	12.71	14 4	29.97	54 45	13.64	38	80.12	16 07	12.11	33	93.41	22 22	16.16	56	13.52	30 49
14.40	34	8.34	42 47	16.35	5	30.27	58 53	15.94	41	80.97	13 20	11.27	36	94.30	21 46	13.97	58	13.96	34 39
16.35	45	10.88	42 05	16.35	13	32.18	52 00	16.35	42	81.22	16 33	11.12	37	94.51	20 40	12.56	13 34	22.69	36 48
14.30	13 7	16.30	43 30	16.35	22	34.24	56 39	13.48	46	82.07	14 11	10.57	52	98.11	22 39	16.35	38	23.57	37 39
14.81	13	17.62	41 50	13.80	36	37.70	51 17	12.86	48	82.64	16 43	16.35	54	98.60	21 10	16.35	41	24.24	39 44
14.40	23	19.99	46 28	16.16	42	39.21	50 44	13.32	11 14	88.95	10 34	16.35	12 1	0.20	26 52	15.74	43	24.75	30 04
16.01	26	20.82	44 38	9.11*	47	40.26	56 23	15.32	22	90.78	18 57	12.71	19	4.52	23 05	13.80	43	24.82	31 37
14.98	42	24.64	46 28	15.39?	49	40.81	53 19	13.01	23	90.97	14 38	15.25	30	7.35	26 08	14.71	14 1	29.11	32 24

25 prec. + 76 sec. — 8′ 20″.

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[1] Adopted mean of magnitudes in Göttinger Aktinometrie and Harvard Ann. 50; visual magn. + corr. for spectrum.

301—310				311															
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$												
	m s	′	′ ″		m s	′	′ ″												
16.35	14 24	34.61	36 10	12.26	15 16	47.27	32 01												
12.56	36	37.48	34 25																
13.80	36	37.65	36 06																
15.15	42	38.98	36 47																
16.16	49	40.62	39 55																
10.33	51	41.19	31 52																
10.49	15 7	44.93	36 28																
15.67	8	45.21	34 47																
16.35	13	46.57	39 22																
16.35	14	46.75	37 10																

25 prec. + 76 sec. — 8′ 20″.

13^h Area 81. Centre for 1900: $13^h\ 12^m + 14^\circ\ 40'$. $+14^\circ$

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$	Int. magn.	α	x	$y+40'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.83	9 43	66.73	2 40	14.58	13 25	20.55	9 29	15.19	11 10	87.99	15 26	13.94	14 27	35.66	11 08	14.44	12 41	9.91	24 53
15.83	44	66.98	7 44	13.64	31	21.98	8 03	14.67	15	89.17	11 32	12.55	42	39.28	17 13	12.37	46	11.26	20 54
15.19	46	67.58	3 05	14.36	38	23.77	7 43	14.23	18	89.85	10 52	11.83	46	40.11	11 07	10.74	48	11.53	22 54
14.91	48	68.09	2 24	15.49	53	27.33	0 28	14.77	32	93.11	17 59	14.77	9 29	63.39	29 52	14.82	51	12.44	26 34
15.64	50	68.36	7 05	11.65	53	27.36	4 26	13.94	32	93.12	11 07	11.04	45	67.39	25 18	12.26	54	13.14	29 44
14.91	56	69.92	9 33	14.44	53	27.47	5 03	15.83	40	95.07	16 38	15.83	59	70.74	21 08	14.58	13 13	17.79	20 41
15.02	10 8	72.79	2 41	14.53	54	27.55	9 22	13.75	12 7	1.70	15 36	13.72	10 0	70.98	26 03	13.10	15	18.06	24 39
11.27	10	73.28	7 48	15.02	14 4	29.96	5 54	13.35	8	2.04	10 23	14.58	3	71.58	24 33	15.64	38	23.60	23 43
15.37	11	73.63	4 44	11.34	17	33.30	4 34	15.64	10	2.52	15 36	15.83	9	73.15	21 24	14.23	45	25.39	26 10
15.83	12	73.87	5 09	15.83	17	33.31	0 18	6.68*	19	4.61	12 10	12.73	12	73.89	25 53	11.65	46	25.57	26 00
11.65	17	74.93	4 50	15.02	18	33.59	6 02	13.35	33	7.88	13 48	13.21	19	75.49	24 15	15.37	50	26.63	22 11
12.73	38	80.07	8 04	15.19	20	34.04	4 44	7.94*	42	10.15	17 28	15.49	19	75.57	26 20	14.36	59	28.93	27 45
15.49	40	80.60	9 46	14.75	39	38.56	0 52	15.83	46	11.21	15 44	14.02	39	80.30	27 34	14.44	14 1	29.19	21 01
15.02	11 3	86.17	1 18	15.49	47	40.57	6 40	15.64	50	12.01	14 19	15.83	42	81.23	27 05	15.83	9	31.21	22 09
13.91	5	86.71	7 42	12.37	9 48	68.13	15 26	15.83	54	13.08	11 46	13.72	57	84.65	21 42	15.49	21	34.23	25 26
15.83	13	88.67	0 48	13.94	54	69.53	18 56	14.15	58	14.15	18 01	12.73	11 6	86.86	25 43	12.55	26	35.45	27 48
14.75	42	95.66	4 11	15.49	10 0	70.93	19 39	14.67	13 4	15.62	18 50	15.19	21	90.58	23 13	10.89	27	35.56	22 02
14.58	58	99.45	9 33	15.37	8	72.92	13 29	15.08	17	18.72	16 45	12.55	23	91.10	22 40	13.94	33	37.04	23 06
12.73	12 1	0.35	2 37	15.83	14	74.25	10 03	14.58	19	19.19	18 36	14.44	36	94.15	22 17	15.83	42	39.24	28 55
13.03	5	1.15	1 56	13.91	20	75.68	10 31	12.88	20	19.37	10 08	13.39	42	95.75	25 47	15.13	46	40.11	20 31
14.91	8	1.94	0 21	13.94	28	77.77	14 34	15.08	22	19.92	14 42	15.64	48	97.00	29 04	15.02	47	40.54	20 09
15.49	14	3.28	7 26	15.37	32	78.59	12 14	13.39	24	20.29	17 39	14.58	51	97.80	23 07	13.83	49	40.84	20 17
15.19	17	4.02	8 33	15.19	32	78.63	11 17	15.83	28	21.32	17 43	14.31	54	98.52	28 21	12.37	9 30	63.74	32 40
14.91	20	4.91	0 55	15.83	38	80.02	19 22	14.77	40	24.31	15 31	15.83	55	98.82	28 14	15.83	40	66.20	37 21
13.64	37	8.93	2 21	14.77	54	83.90	19 18	13.91	41	24.49	17 48	14.23	12 0	99.97	27 25	15.19	46	67.48	36 31
15.83	45	10.97	9 19	15.83	55	84.20	18 56	15.83	46	25.72	13 04	15.08	9	2.09	27 42	14.67	50	68.63	36 52
15.83	55	13.39	2 47	13.83	55	84.27	17 19	15.83	54	27.66	10 46	15.19	12	2.80	26 12	14.10	10 11	73.71	36 32
15.64	57	13.76	1 29	13.83	56	84.48	19 04	14.53	14 4	30.05	15 42	13.75	16	3.79	21 54	13.53	16	74.88	35 11
14.77	13 19	19.20	5 54	12.73	11 2	85.89	14 46	15.83	5	30.23	18 17	15.83	31	7.53	24 32	15.83	20	75.80	38 19
14.15	24	20.25	7 31	14.36	7	87.08	16 22	15.49	7	30.75	15 45	15.83	35	8.57	22 33	14.36	22	76.29	35 23

25 prec. + 74 sec. — 7′ 57″

151—200				201—250				251—300				301—350				351—379			
Int. magn.	*a*	*x*	*y*+40′	Int. magn.	*a*	*x*	*y*+40′	Int. magn.	*a*	*x*	*y*+40′ *y*—20′	Int. magn.	*a*	*x*	*y*—20′	Int. magn.	*a*	*x*	*y*—20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.83	10 50	83.07	38 46	14.31	10 5	72.21	47 28	14.19	11 35	94.02	50 05	11.65	12 4	0.89	7 30	15.08	11 58	99.40	16 51
15.83	54	84.02	38 46	15.83	11	73.64	48 22	14.58	57	99.24	53 47	14.36	8	1.91	0 52	11.09	58	99.42	15 57
15.31	11 3	86.14	32 18	15.49	11	73.73	40 29	14.23	58	99.52	57 42	12.55	13	3.19	5 31	14.36	12 6	1.40	15 57
14.91	5	86.75	35 53	13.72	15	74.56	46 55	12.73	12 1	0.16	53 57	15.19	18	4.42	8 29	15.37	15	3.63	18 08
15.37	9	87.57	35 30	13.64	43	81.34	43 25	15.83	6	1.55	57 35	14.82	25	5.94	4 07	15.83	18	4.42	14 58
12.55	18	89.87	32 58	15.31	11 0	85.48	49 00	15.19	19	4.63	58 57	12.85	28	6.67	0 56	15.83	25	5.94	12 52
11.65	21	90.60	31 37	14.53	5	86.64	46 28	15.83	34	8.21	52 01	14.82	29	6.92	1 19	14.31	28	6.81	17 18
14.91	25	91.52	36 12	13.21	5	86.68	48 02	15.19	45	10.80	58 50	14.67	35	8.46	6 44	12.01	42	10.07	16 05
15.83	31	93.07	33 32	15.19	13	88.67	45 28	12.01	51	12.39	57 18	14.53	41	9.91	2 06	14.82	44	10.72	13 16
15.31	34	93.62	37 18	14.58	25	91.47	48 24	15.83	13 11	17.17	51 35	15.49	45	10.88	6 22	15.83	52	12.56	15 27
15.49	39	94.80	36 20	13.46	34	93.79	41 53	14.91	19	19.05	56 36	15.49	50	12.03	2 32	15.64	56	13.59	10 41
15.83	41	95.37	31 23	15.64	41	95.44	46 55	15.83	28	21.14	51 43	12.55	57	13.74	4 06	13.46	13 1	14.75	12 52
12.73	51	97.76	30 14	15.64	47	96.79	44 05	15.49	46	25.54	50 08	14.10	13 0	14.58	6 06	15.83	4	15.51	18 54
13.24	55	98.68	30 21	14.58	56	98.98	46 37	12.19	48	26.12	58 45	14.36	2	14.85	1 38	14.44	13	17.53	12 52
14.03	12 1	0.30	30 42	9.81*	12 2	0.59	41 59	12.55	48	26.15	58 53	15.02	10	16.96	0 40	11.83	13	17.54	14 52
13.75	6	1.57	34 41	15.83	20	4.84	46 38	15.83	51	26.75	55 30	13.83	25	20.41	6 36	13.10	17	18.57	17 05
12.92	7	1.67	35 47	13.10	30	7.31	47 40	15.83	55	27.85	59 39	14.82	26	20.83	4 35	15.37	36	23.08	13 19
12.73	12	2.81	30 42	15.64	33	7.88	47 47	13.64	58	28.45	53 00	14.53	27	20.99	7 53	15.19	44	25.17	14 20
15.64	21	4.97	32 53	14.82	48	11.70	48 55	14.23	14 1	29.17	57 47	15.83	27	21.11	3 50	13.46	49	26.32	12 41
12.92	22	5.39	35 06	13.72	49	11.86	47 36	14.82	2	29.44	58 11	15.83	35	22.91	2 24	13.10	51	26.74	11 37
14.67	25	6.15	34 26	13.21	50	12.09	48 06	10.03	4	30.05	59 59	14.02	37	23.50	6 02	13.28	52	26.98	11 41
14.31	35	8.36	35 34	14.02	57	13.69	43 05	12.92	5	30.11	54 53	15.83	38	23.58	6 23	14.02	14 6	30.42	10 29
15.83	35	8.57	31 07	13.75	57	13.75	49 14	9.73	14	32.44	50 08	13.46	38	23.69	7 04	14.44	13	32.15	14 45
13.91	39	9.54	34 06	15.83	13 7	16.11	44 34	14.91	21	34.09	59 01	15.64	52	27.14	7 41	13.10	15	32.52	14 49
14.91	52	12.68	38 25	12.92	16	18.43	40 35	12.01	26	35.38	50 46	15.37	55	27.73	4 26	15.83	23	34.47	16 53
15.83	56	13.54	38 39	11.47	32	22.16	44 03	15.19	33	37.00	56 36	14.91	14 1	29.15	4 48	14.53	27	35.52	13 18
13.39	13 21	19.71	30 55	13.75	34	22.81	47 27	13.94	34	37.12	53 32	15.83	4	29.96	5 19	13.28	42	39.15	13 22
13.46	22	19.75	39 12	14.31	59	28.78	49 41	15.83	9 20	61.28	6 53	12.92	26	35.17	8 37	12.12	44	39.43	10 04
15.83	24	20.27	32 19	13.83	59	28.82	47 25	12.73	37	65.60	6 41	15.08	31	36.33	1 56	15.83	47	40.34	18 31
14.67	27	20.95	32 37	15.83	14 0	29.13	45 09	13.10	39	65.93	7 59	13.10	46	40.05	9 22				
14.44	31	22.02	36 51	14.10	16	32.88	49 24	15.31	54	69.63	3 51	15.08	9 37	65.45	12 03				
13.21	33	22.60	30 26	15.83	9 22	61.79	52 15	15.83	55	69.81	6 44	13.94	39	65.94	13 52				
14.44	34	22.69	31 30	12.37	28	63.22	56 24	14.82	10 2	71.64	0 47	14.15	41	66.44	15 59				
15.83	38	23.83	36 16	15.83	28	63.25	54 33	13.28	3	71.65	5 07	12.92	44	67.16	16 25				
14.10	44	25.05	37 50	15.83	34	64.71	57 33	13.21	11	73.64	0 16	15.83	51	68.96	13 11				
15.31	52	26.98	36 12	15.83	37	65.45	52 34	12.19	13	74.14	9 19	13.68	54	69.54	10 12				
14.77	52	27.04	36 33	15.19	45	67.30	52 13	11.21	15	74.73	7 29	13.75	54	69.56	14 51				
14.31	53	27.30	35 35	15.83	47	67.85	50 51	15.83	23	76.60	4 47	14.91	10 21	76.14	14 41				
15.08	14 1	29.28	33 32	14.53	49	68.44	51 39	15.37	23	76.62	3 14	13.91	41	81.02	16 25				
15.83	2	29.42	33 57	15.64	50	68.54	56 07	13.79	42	81.16	0 02	10.75	44	81.69	11 38				
14.53	8	30.87	32 37	14.91	56	70.13	56 03	15.37	48	82.50	0 13	12.37	48	82.53	19 36				
14.23	16	32.90	35 39	15.02	57	70.17	51 08	15.83	50	83.02	9 13	12.55	48	82.54	14 01				
15.83	28	35.89	34 54	14.10	10 5	72.28	50 44	15.83	52	83.60	6 47	13.94	11 1	85.81	15 26				
14.77	32	36.76	31 29	12.92	7	72.75	57 49	13.57	11 12	88.44	0 37	13.39	3	86.32	16 28				
13.75	9 31	64.02	44 55	15.83	8	72.90	56 20	13.94	21	90.51	5 03	15.83	22	90.79	13 04				
12.37	44	67.24	40 45	15.37	22	76.27	57 43	15.83	22	90.82	5 05	15.31	27	91.94	13 05				
15.49	45	67.44	45 45	15.83	26	77.38	55 41	15.83	49	97.42	2 49	15.83	33	93.48	17 00				
15.37	50	68.54	47 59	13.91	34	79.22	52 00	15.08	50	97.60	3 17	14.67	35	94.00	10 34				
15.83	51	68.75	46 56	15.83	58	85.11	58 42	14.02	54	98.59	6 05	12.55	38	94.78	17 15				
15.31	58	70.46	48 08	13.28	11 15	89.16	59 40	9.96	12 2	0.45	0 23	14.67	43	95.97	12 51				

25 prec. + 74 sec. — 7′ 57″.

Area 82. Centre for 1900: 14h 14m + 15° 20′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+80′	Int. magn.	α	x	y+80′	Int. magn.	α	x	y+80′ y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.82	11 57	70.33	40 29	15.82	17 5	44.73	41 26	12.97	16 19	33.47	55 31	15.22	15 39	23.89	9 01	15.82	16 1	29.21	16 14
13.98	12 0	71.06	40 14	15.82	10	45.85	42 14	15.63	35	37.40	50 59	13.51	41	24.41	5 50	15.82	3	29.70	11 35
11.33	4	71.97	45 52	15.82	12	46.51	42 33	15.38	36	37.72	52 01	15.48	47	25.90	4 00	15.82	5	30.13	13 04
15.07	5	72.12	47 32	14.37	15	47.16	48 22	15.82	45	39.98	56 08	15.63	53	27.35	1 22	14.08	5	30.18	18 25
14.13	8	72.81	41 11	15.12?	20	48.32	46 37	13.37	48	40.58	51 45	11.84	54	27.59	4 21	15.82	18	33.23	19 53
13.19	14	74.30	43 26	15.33	11 56	70.03	55 16	15.82	48	40.68	50 07	15.82	59	28.77	5 59	13.06	23	34.51	15 41
14.97	24	76.76	41 29	15.38	12 2	71.54	53 06	12.22	57	42.68	56 27	13.65	16 8	30.95	1 00	15.33	23	34.54	10 26
14.87	32	78.72	43 44	12.76	12	73.87	58 29	11.49	17 4	44.43	56 19	13.19	16	32.93	2 12	15.82	24	34.85	17 57
15.63	40	80.72	48 21	15.63	13	74.20	53 08	13.89	11	46.11	51 32	14.32	18	33.37	7 59	14.37	25	35.07	18 05
14.37	41	81.01	40 52	15.82	16	74.98	56 38	13.51	12	46.43	59 24	15.12	19	33.48	1 27	15.07	28	35.74	14 05
15.63	46	82.17	45 13	15.63	22	76.23	59 35	11.28	13	46.69	58 44	15.12	23	34.62	6 22	14.92	34	37.16	10 02
11.84	50	82.97	40 17	12.42	32	78.71	52 10	14.08	11 57	70.39	3 08	14.97	27	35.39	4 38	14.87?	40	38.55	14 05
15.63	56	84.47	42 17	14.57	43	81.30	50 19	14.22	59	70.77	6 34	13.65	36	37.56	1 29	14.97	45	39.85	16 08
14.13	13 1	85.83	48 16	13.98	52	83.61	58 22	13.98	12 3	71.68	3 11	14.47	37	37.86	7 27	15.82	17 17	47.52	18 14
14.57	12	88.28	45 14	14.87	53	83.84	52 44	13.06	6	72.49	8 08	15.63	43	39.25	3 32	15.38	21	48.41	12 11
13.06	13	88.62	48 19	15.63	55	84.39	57 30	13.51	12	73.86	0 27	13.74	54	41.88	5 49	13.98	11 56	70.14	28 57
13.51	20	90.35	42 09	15.82	56	84.62	56 13	14.72?	14	74.40	2 13	14.47	17 5	44.60	3 12	15.82	12 0	71.02	29 18
14.47	20	90.40	44 02	15.21	13 7	87.22	54 50	15.22?	21	76.04	3 38	14.97	18	47.67	6 22	15.07	2	71.58	28 17
15.82	38	94.79	47 30	14.82	13	88.72	52 58	13.89	23	76.68	9 22	14.62	22	48.83	4 07	14.22	4	72.04	26 05
15.82	43	95.92	49 50	15.12?	21	90.48	56 10	15.38	25	77.04	2 27	14.27	23	48.90	0 03	11.36	6	72.43	25 32
13.51	14 14	3.30	42 55	15.38?	23	91.11	52 36	13.98	30	78.36	2 54	15.82	11 58	70.51	11 45	15.82	10	73.58	27 27
15.82	15	3.61	44 02	14.62	28	92.21	53 35	15.82	35	79.43	6 52	15.82	12 5	72.29	18 31	14.32	16	74.82	26 47
15.48	21	4.99	41 24	13.65	38	94.60	54 18	15.38	44	81.66	7 08	11.66	15	74.69	14 47	15.12	16	74.95	28 52
14.72	22	5.37	46 40	15.82	38	94.67	57 23	15.17	45	81.94	9 28	15.48	29	78.15	17 34	13.89	17	75.10	21 18
13.89	31	7.43	48 17	15.82	40	95.19	57 16	13.89	59	85.17	9 36	14.22	42	81.20	10 58	14.87	19	75.75	28 33
14.13	31	7.56	40 14	14.87	41	95.42	51 32	15.63	13 21	90.58	8 40	14.97	44	81.77	17 12	15.33	33	79.01	22 59
14.57	34	8.30	42 21	14.22	46	96.58	50 35	13.37	32	93.14	9 28	15.82	46	82.21	19 34	14.47	35	79.55	26 33
14.47	36	8.69	48 07	15.63	46	96.69	54 29	11.66	32	93.25	7 01	13.46	48	82.58	19 28	12.84	39	80.45	21 06
14.47	44	10.59	45 40	15.82	54	98.55	55 32	15.12	33	93.50	1 08	13.98	52	83.67	13 13	15.33	39	80.52	24 25
11.17	46	11.02	46 21	15.82	14 8	1.92	55 10	15.12?	38	94.60	0 31	15.22	13 5	86.76	11 08	15.82	52	83.66	23 31
11.17	55	13.35	40 59	15.82	19	4.48	50 31	12.42	45	96.33	7 25	14.87	5	86.77	19 12	9.47	13 9	87.81	21 26
15.48	15 14	17.99	49 12	10.16	20	4.84	56 34	15.82	54	98.57	3 04	15.82	7	87.16	19 43	14.32	12	88.55	26 19
15.82	29	21.51	46 16	12.22	23	5.60	52 23	14.08	14 16	3.77	6 21	15.54	11	88.08	19 51	15.12?	17	89.72	20 45
15.48	50	26.51	44 13	15.48	25	5.97	51 19	14.82	27	6.49	0 01	14.87	32	93.25	19 05	15.82	37	94.48	22 26
15.82	55	27.89	46 24	14.62	35	8.50	55 31	15.82	32	7.74	8 34	15.82	36	94.13	16 23	15.22?	41	95.52	29 21
13.19	16 4	29.88	47 35	15.38	37	9.05	57 43	15.22?	35	8.40	7 01	15.82	39	94.84	17 37	14.62	44	96.22	24 20
11.28	7	30.74	49 02	13.51	46	11.07	58 27	14.97	36	8.59	4 19	12.76	39	94.91	16 50	15.82	57	99.23	23 04
15.84	14	32.29	40 18	15.82	58	14.10	55 32	14.72	45	10.75	4 31	15.82	40	95.20	13 05	12.97	14 27	6.42	22 34
14.82	17	33.20	44 51	15.82	15 15	18.23	53 45	14.82	47	11.44	0 05	14.82	41	95.31	16 16	12.72	30	7.14	29 37
13.65	22	34.37	44 30	13.19	16	18.42	57 57	13.06	52	12.60	9 41	14.57	41	95.34	18 06	14.72?	32	7.61	21 29
15.82	23	34.52	41 12	15.82	20	19.33	52 07	12.59	55	13.25	0 15	15.48	52	97.98	13 11	15.07.?	34	8.18	21 38
13.51	23	34.54	44 46	14.57	21	19.58	50 11	15.82	59	14.30	5 16	15.63	14 1	0.24	15 46	9.44	39	9.51	23 45
15.82	25	35.06	42 22	14.72	21	19.69	59 11	15.63	15 5	15.74	8 59	14.97	4	0.90	11 33	12.03	42	10.23	26 53
14.13	34	37.18	47 36	15.82	32	22.19	53 28	15.82	20	19.23	5 45	15.82	10	2.43	15 13	14.72	51	12.19	23 57
13.37	37	37.99	46 30	13.19	43	24.91	54 41	15.12	24	20.19	5 44	15.82	11	2.72	14 43	15.12	15 8	16.50	23 18
13.19	38	38.08	46 17	15.22	47	25.76	55 45	14.37	27	21.02	4 37	15.38?	26	6.27	10 58	15.48	15	17.97	28 08
15.63	40	38.69	45 46	15.38	48	26.04	53 07	13.98	32	22.22	7 58	15.63	39	9.46	19 31	15.38	26	20.70	24 29
14.32	50	41.17	44 09	15.63	51	26.89	55 10	15.12?	33	22.49	7 04	14.22	50	12.15	17 21	15.82	37	23.38	24 19
12.22	17 0	43.53	46 05	14.37	55	27.86	59 07	15.22	36	23.14	2 11	11.17	15 53	27.29	16 37	14.62	42	24.49	25 56
15.48	3	44.36	48 28	11.28	16 1	29.23	58 35	15.82	37	23.34	8 56	11.36	58	28.55	11 55	15.48	42	24.60	23 47

25 prec. + 72 sec. — 6′ 58″.

251—290				291—330				331—370				371—410				411—434			
Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.48	15 43	24.80	21 58	15.82	14 54	12.94	31 34	13.51	12 38	80.32	46 54	15.82	15 29	21.51	43 05	14.47	14 6	1.42	58 21
14.82	47	25.71	25 16	12.84	15 15	17.95	38 16	7.41*	42	81.17	43 34	12.22	30	21.58	49 04	11.49	9	2.27	55 16
15.22	48	26.08	29 35	13.28	28	21.08	36 55	14.87	44	81.82	40 57	15.07	30	21.61	45 56	14.57	21	5.09	51 01
10.22	56	27.92	20 57	15.63	30	21.74	30 38	15.48	47	82.40	49 38	13.51	33	22.42	44 07	15.82	32	7.80	51 48
13.89	16 15	32.51	23 32	15.38	40	24.12	33 06	12.22	13 1	85.87	40 27	13.98	57	28.08	44 10	14.82	52	12.41	50 46
14.87	19	33.41	21 01	15.22	43	24.89	34 54	15.82	4	86.51	47 38	15.48	16 0	28.81	42 56	14.22	15 1	14.78	50 35
14.97	21	33.99	26 12	11.77	45	25.27	39 44	15.48	9	87.71	46 08	15.82	13	32.07	49 21	15.12	2	14.98	50 41
14.72	23	34.47	24 43	15.63	50	26.45	39 23	15.33	12	88.35	46 08	13.51	15	32.50	41 47	15.82	8	16.47	52 03
9.78	36	37.53	21 08	15.38	53	27.12	33 59	15.22	19	90.21	42 17	15.63	27	35.42	47 15	14.72	9	16.63	51 44
15.82	46	39.90	28 39	15.38	53	27.29	38 59	15.22	20	90.49	44 54	15.63	30	36.14	48 15	15.63	10	16.83	59 12
15.82	17 0	43.29	26 47	15.07	59	28.75	33 06	14.13	23	91.05	40 59	14.82	39	38.19	42 06	11.84	15	18.06	59 06
14.82	7	45.06	28 03	12.42	16 10	31.41	37 51	15.82	28	92.41	46 47	15.63	41	38.65	47 41	15.38	44	24.93	54 40
15.63	9	45.51	23 45	14.37	12	31.76	34 37	15.12?	32	93.33	44 44	13.98	42	38.95	42 31	14.13	51	26.57	54 10
15.82	11	46.05	27 36	15.82?	19	33.56	38 29	15.82	32	93.34	45 19	11.28	56	42.44	40 35	14.47	53	27.17	59 28
15.82	12	46.38	25 48	14.22	20	33.62	32 05	15.07	41	95.33	40 51	12.14	17 12	46.12	49 41	14.32	56	27.76	54 01
14.32	20	48.17	28 31	14.72	33	36.86	33 09	13.19	41	95.44	45 25	14.47	13	46.34	46 45	15.12	16 6	30.34	53 00
15.82	11 58	70.64	37 47	14.72	38	38.08	35 55	14.37	53	98.23	47 25	15.82	14	46.80	48 40	13.98	56	42.20	56 45
14.62	12 13	74.17	36 04	14.37	45	39.79	37 29	14.72	14 0	99.91	43 30	15.43	15	46.85	40 26	15.33	59	43.09	52 45
15.63	18	75.50	36 00	15.33	48	40.55	30 29	11.36	3	0.69	43 58	14.97	17	47.32	47 21	14.72	17 3	43.97	57 21
15.33	20	75.85	34 18	13.65	48	40.58	31 51	11.17	3	0.70	41 45	15.82	11 58	70.57	51 42	15.82	4	44.15	52 30
15.22	20	75.94	30 00	15.63	49	40.67	38 48	14.72	4	1.05	43 37	14.37	12 8	73.15	52 36	13.74	5	44.41	51 51
14.97	42	81.15	33 15	15.82	51	41.09	39 14	15.82	5	1.26	41 06	15.82	13	74.20	58 58	14.57	12	46.07	56 13
15.63	42	81.32	34 50	15.82	58	42.87	31 35	12.42	7	1.60	43 45	14.97	31	78.59	59 56	13.24	17	47.45	50 24
11.84	55	84.31	35 01	15.38	59	43.09	37 26	13.42	9	2.17	43 53	15.07	41	81.03	51 17	14.22	18	47.62	55 50
15.82	13 0	85.56	34 52	15.07	17 6	44.84	38 07	14.57	15	3.50	41 50	12.63	42	81.17	51 55				
12.84	0	85.66	34 04	14.87	8	45.36	35 15	14.97	15	3.61	48 22	15.33	46	82.33	59 56				
14.47	8	87.46	38 58	13.65	17	47.35	38 37	13.98	15	3.71	40 40	15.22	13 17	89.73	53 43				
15.07	11	88.15	38 06	15.22	17	47.36	37 08	14.82	25	6.06	48 04	11.10	23	91.07	58 57				
15.82	14	88.90	38 45	13.98	17	47.49	31 35	13.98	29	6.89	41 09	15.22	23	91.15	57 12				
13.98:	34	93.76	35 13	15.82	22	48.72	35 39	15.48	35	8.48	48 25	15.33?	26	91.79	51 43				
15.12	48	97.16	39 23	15.48	11 58	70.68	43 37	14.22	36	8.65	48 54	14.87	29	92.49	57 05				
15.12	50	97.51	38 23	11.84	12 6	72.63	41 34	14.87	39	9.30	41 32	14.62	37	94.41	52 36				
15.82	57	99.28	39 42	14.72	9	73.37	43 07	15.12	50	12.00	45 17	15.82	38	94.64	56 07				
14.72	14 4	0.87	31 49	14.57	13	74.30	44 11	15.82	15 0	14.32	48 52	15.12	49	97.41	57 27				
15.07	25	5.96	38 23	14.32	15	74.79	46 14	11.84	13	17.65	47 21	14.37	55	98.69	52 07				
12.63	31	7.56	38 49	14.22	18	75.57	45 24	10.72	18	18.70	46 57	14.13	56	99.08	52 20				
13.06	35	8.48	37 36	14.82	21	76.23	41 20	14.37	21	19.38	46 44	14.82	57	99.28	54 40				
15.82	38	9.21	30 33	15.63	23	76.63	45 00	13.28	22	19.74	40 22	15.07	14 0	0.04	50 26				
14.57	40	9.54	30 53	13.84	31	78.69	46 49	15.12	23	20.04	45 05	15.82?	1	0.13	56 11				
15.48	54	12.91	33 13	15.22?	36	79.73	43 25	13.65	28	21.11	49 34	13.51	1	0.23	51 48				

25 prec. + 71 sec. — 6′ 57″.

Area 83. Centre for 1900: $15^h\ 9^m + 14^\circ\ 50'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.89	6 29	63.46	11 14	15.74	9 12	2.96	11 59	16.16	7 24	76.77	25 48	15.41	10 16	18.46	29 50	15.74	8 44	96.04	37 43
13.45	37	65.37	11 29	16.16	17	4.16	18 20	15.49	30	78.29	27 15	15.53	22	19.75	27 30	14.85	50	97.68	39 37
12.86	46	67.50	14 18	13.25	23	5.52	10 29	11.47	34	79.14	29 51	15.41	26	20.72	29 24	15.70	53	98.20	32 46
12.27	50	68.46	14 44	15.82	27	6.47	15 12	15.53	35	79.37	28 54	15.53	26	20.88	23 40	15.97	54	98.55	32 55
13.92	51	68.80	16 24	15.01	29	6.99	18 22	13.96	36	79.56	23 51	15.41	35	22.93	21 31	16.16	59	99.66	37 10
16.16	52	69.08	15 02	15.53	33	7.96	10 22	15.09	45	81.88	26 00	14.81	36	23.25	26 15	14.23	59	99.79	32 03
15.82	7 14	74.23	18 41	15.49	34	8.16	10 51	16.16	53	83.72	20 20	15.29	38	23.63	25 02	15.09	9 2	0.47	35 33
15.53	15	74.48	19 31	14.89	35	8.47	11 53	14.03	55	84.15	22 48	16.16	39	23.96	20 06	15.61	4	1.00	32 52
15.49	15	74.55	13 40	13.06	37	8.87	11 35	13.06	8 1	85.82	24 21	14.89	40	24.26	28 55	14.31	5	1.20	33 38
14.31	17	74.92	12 14	15.74	39	9.45	15 44	15.78	2	85.87	20 06	15.82	43	24.94	27 25	14.93	9	2.21	39 02
14.23	19	75.62	18 41	11.25	52	12.56	17 27	15.13	7	87.21	25 09	15.21	46	25.76	24 58	15.41	11	2.63	32 42
16.16	25	76.95	10 54	16.16	54	12.97	10 27	15.45	14	88.93	29 56	13.76	49	26.42	20 38	15.74	14	3.39	32 41
15.21	30	78.16	17 51	14.35	10 1	14.89	15 33	14.93	14	88.97	27 27	13.64	51	26.83	24 01	13.45	20	4.93	37 06
16.16	35	79.30	18 45	16.16	14	17.82	13 53	13.64	17	89.54	20 47	15.70	58	28.59	27 46	14.78	24	5.84	39 52
14.42	35	79.32	12 53	13.45	20	19.29	10 19	12.27	20	90.30	25 02	15.82	11 8	30.88	26 39	12.67	35	8.57	31 43
15.97	35	79.45	14 11	15.29	21	19.57	18 48	13.45	24	91.41	29 06	15.74	16	32.90	24 35	13.57	38	9.08	37 31
14.70	36	79.65	11 53	14.62×	27	21.06	13 39	13.06	25	91.62	28 45	14.03	16	33.03	27 53	11.88	41	9.80	32 10
15.53	39	80.44	17 31	12.86	29	21.66	15 55	13.96	28	92.24	26 14	14.74	23	34.59	25 38	15.49	42	10.07	35 15
16.16	41	80.75	17 00	15.97	36	23.23	12 09	14.62	31	92.92	21 47	15.01	25	35.08	24 48	13.06	42	10.16	33 00
14.74	43	81.30	10 45	15.53	37	23.42	14 54	13.06	31	92.99	27 59	15.09	31	36.45	25 18	12.07	42	10.17	31 37
15.41	48	82.47	15 52	11.88	11 0	29.14	14 15	16.16	33	93.66	20 31	11.88	34	37.30	26 44	15.82	43	10.33	38 15
16.16	50	83.03	19 47	16.16	1	29.37	17 11	13.45	38	94.71	27 30	16.16	35	37.62	28 46	15.53	44	10.74	36 51
14.81	51	83.34	12 04	13.45	18	33.46	16 25	15.97	39	94.88	25 45	14.31	42	39.31	26 03	15.01	45	10.78	38 42
16.16	56	84.60	10 26	13.06	24	34.79	18 13	15.41	42	95.58	21 07	14.62	6 24	62.33	36 47	15.97	48	11.63	32 44
11.40	58	84.97	19 05	16.16	26	35.35	19 01	14.74	42	95.74	27 44	15.74	32	64.11	36 24	16.16	49	11.76	31 26
15.13	8 7	87.08	12 12	13.25	32	36.95	17 47	15.33	44	96.25	26 16	16.16	51	68.71	32 35	16.16	57	13.90	30 26
14.62	9	87.62	11 35	13.57	33	37.19	16 33	13.45	47	96.81	26 25	15.41	55	69.70	31 45	16.16	10 0	14.49	37 19
15.49	15	89.02	15 22	16.16	35	37.47	10 31	12.07	47	96.82	28 51	16.16	56	69.99	35 11	15.41	0	14.58	32 45
15.82	16	89.27	17 31	16.16	35	37.48	19 08	16.16	50	97.50	25 34	15.49	7 2	71.35	35 37	16.16	2	14.95	33 27
13.25	17	89.69	18 35	12.07	50	41.26	12 34	15.97	52	98.10	25 49	11.26	2	71.43	30 05	12.47	8	16.36	39 16
12.86	20	90.26	15 53	15.53	52	41.65	11 04	11.16	53	98.21	20 39	15.21	4	71.97	35 31	15.33	14	17.84	32 35
15.97	21	90.63	18 00	15.49	6 31	63.81	21 44	15.82	9 5	1.32	25 07	15.53	5	72.15	34 09	15.41	17	18.61	30 48
14.93	24	91.22	16 03	14.81	31	63.82	20 43	10.22*	9	2.12	29 17	16.16	6	72.45	35 44	10.66	28	21.24	30 13
16.16	28	92.33	16 56	16.16	32	64.21	27 03	16.16	16	3.79	26 02	16.16	11	73.58	37 22	13.25	29	21.63	38 35
16.16	29	92.52	17 49	15.09	36	65.12	25 43	11.34	16	3.84	27 59	16.16	15	74.57	35 13	14.42	31	22.12	30 23
14.74	37	94.40	19 20	16.16	37	65.44	29 32	16.16	18	4.47	26 37	14.89	17	75.06	38 26	15.74	37	23.35	31 30
15.97	38	94.73	17 50	14.62	41	66.25	24 41	14.03	21	5.18	24 31	15.01	23	76.46	30 52	15.41	37	23.46	36 12
16.16	41	95.27	12 25	16.16	41	66.33	25 53	15.49	25	5.94	27 17	16.16	34	79.19	37 21	14.81	38	23.66	37 20
13.64	44	96.14	11 15	13.45	44	67.12	23 49	15.97	26	6.25	21 57	16.16	43	81.48	37 22	15.13	43	24.89	39 09
16.16	45	96.40	18 01	15.61	45	67.35	25 41	16.16	28	6.69	27 24	15.82	55	84.20	34 44	16.16	44	25.08	32 17
15.49	46	96.70	17 14	14.23	54	69.41	21 28	15.33	30	7.27	27 07	14.31	57	84.78	34 02	16.16	51	26.79	32 23
14.62	47	96.97	17 21	16.16	54	69.55	25 06	15.41	31	7.58	24 55	16.16	8 2	86.06	35 38	14.89	57	28.20	36 26
16.16	48	97.05	10 28	15.49	55	69.80	26 12	13.57	36	8.83	21 33	16.16	7	87.27	39 27	14.93	11 1	29.16	32 21
15.70	50	97.69	10 56	16.16	57	70.29	22 19	16.16	44	10.58	29 52	13.64	12	88.37	37 01	14.62	6	30.45	32 07
15.33	51	97.92	16 58	15.21	58	70.44	28 07	11.09	47	11.48	28 46	14.23	15	89.06	31 04	15.21	7	30.62	30 55
16.16	52	98.05	16 24	15.09	58	70.57	26 12	13.06	10 1	14.80	28 51	15.74	18	89.90	32 47	15.82	8	30.97	31 14
15.97	53	98.22	17 15	15.82	7 6	72.43	28 26	15.70	1	14.85	20 48	13.06	24	91.20	33 42	14.00	9	31.23	39 49
16.16	53	98.28	18 23	14.81	16	74.79	29 25	15.97	6	15.91	21 17	15.33	29	92.49	36 52	16.16	10	31.47	39 02
10.34	9 3	0.63	17 42	15.70	17	75.03	22 19	15.01	6	16.08	29 24	16.16	36	94.22	38 53	14.81	34	37.29	32 39
11.23	9	2.19	18 26	16.16	20	75.78	28 49	14.70	15	18.16	28 25	15.21	39	94.84	38 01	12.86	40	38.72	32 35

25 prec. + 71 sec. — 5′ 40″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′	Int. magn.	α	x	y+50′ y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.04	11 48	40.64	35 14	15.41	9 50	12.20	49 49	15.33	8 33	93.58	56 47	15.21	6 56	70.02	3 08	11.88	10 59	28.63	4 11
13.64	6 34	64.70	44 42	10.84	50	12.21	43 41	14.50	40	95.28	50 37	14.11	7 1	71.31	3 36	13.64	11 0	28.93	5 38
15.49	43	66.97	47 46	14.62	52	12.61	40 52	15.61	54	98.50	54 44	15.01	5	72.13	5 01	15.17	18	33.24	9 50
16.16	44	67.07	42 20	16.16	10 4	15.49	43 02	15.53	9 3	0.62	55 57	14.93	18	75.45	5 10	12.47	28	35.64	4 18
13.45	45	67.40	47 21	15.53	7	16.29	42 52	13.68	5	1.16	50 12	13.84	20	75.90	1 43	15.66	36	37.67	0 18
16.16	45	67.41	42 21	15.29	12	17.34	41 19	12.86	5	1.32	50 06	15.53	26	77.24	9 34	15.01	37	37.85	3 02
15.97	47	67.89	40 53	14.23	15	18.08	47 36	15.61	8	1.99	59 01	15.70	35	79.40	5 18	14.70	44	39.56	1 19
14.54	49	68.23	42 00	12.27	19	19.02	45 03	15.17	10	2.34	50 18	16.16	36	79.64	1 36	12.07	49	40.82	6 34
14.62	52	69.15	45 29	16.16	19	19.18	47 55	15.49	20	4.87	54 56	15.33	37	79.87	9 20	15.53	6 23	62.04	15 29
16.16	57	70.15	48 58	16.16	23	20.02	48 26	15.82	23	5.54	54 54	14.62	41	80.92	4 58	14.23	28	63.43	17 53
15.70	7 3	71.71	40 50	15.97	50	26.52	48 41	15.41	29	7.06	51 12	16.16	47	82.33	6 14	15.21	30	63.82	12 59
16.16	4	71.91	48 10	16.16	58	28.41	47 35	14.31	33	8.05	58 32	15.82	48	82.53	8 34	11.06	31	63.97	18 00
16.16	19	75.51	44 50	16.16	11 3	29.74	40 09	15.09	38	9.27	54 54	15.49	49	82.93	5 55	16.16	35	65.00	18 09
15.29	21	75.99	44 11	15.97	4	29.90	44 52	15.41	42	10.12	53 48	14.89×	51	83.39	1 10	14.93	36	65.15	11 23
16.16	23	76.57	48 34	14.42	7	30.74	45 08	14.70	42	10.13	57 35	15.82	8 10	87.86	2 26	15.13	43	66.97	15 19
10.57	26	77.23	45 12	16.16	17	33.16	43 18	14.42	43	10.35	58 59	12.07	14	88.77	1 20	15.70	49	68.34	14 52
13.25	28	77.87	46 25	14.81	28	35.70	49 09	15.74	43	10.39	51 06	11.06	22	90.87	8 58	15.41	51	68.85	19 43
14.81	31	78.37	46 27	15.41	36	37.66	44 03	12.07	46	11.02	56 55	16.16	24	91.37	9 58	16.16	59	70.83	14 32
14.89	31	78.44	47 17	14.89	39	38.54	45 17	16.16	58	14.09	56 38	15.01	30	92.78	0 32	14.70	7 1	71.24	17 50
15.70	31	78.50	40 45	16.16	44	39.75	47 38	16.16	10 14	17.99	54 40	14.42	30	92.80	4 19	16.16	13	74.15	13 11
13.64	41	80.80	49 12	15.97	52	41.51	45 35	14.23	18	18.87	58 05	14.93	33	93.39	2 10	14.70	17	75.14	17 22
13.45	45	81.96	47 06	16.16	6 24	62.39	53 08	15.97	18	18.91	55 50	14.23	41	95.33	4 45	16.16	18	75.46	18 00
15.70	8 1	85.77	47 56	15.97	30	63.80	57 11	16.16	24	20.38	53 32	15.49	42	95.77	3 08	16.16	18	75.50	14 52
15.09	2	85.86	41 31	15.41	34	64.64	50 53	16.16	28	21.27	59 58	10.50	50	97.54	8 10	14.15	23	76.53	19 46
16.16	3	86.11	45 19	14.62	37	65.46	57 11	15.01	32	22.19	51 18	12.86	51	97.76	8 55	14.74	23	76.72	19 07
13.84	7	87.18	47 48	15.09	38	65.67	55 53	15.13	37	23.47	51 16	14.70	51	97.77	1 11	15.41	26	77.32	13 22
14.93	16	89.34	49 50	16.16	38	65.74	56 22	12.47	38	23.64	50 56	12.86	9 2	0.49	9 50	15.53	29	78.13	18 16
13.64	17	89.49	47 56	15.53	39	65.99	54 55	15.13	52	26.96	50 27	15.41	2	0.60	9 28	11.08	30	78.34	14 13
15.74	20	90.41	45 41	14.89	41	66.38	53 00	15.29	55	27.72	50 39	16.16	3	0.75	5 03	15.49	31	78.53	12 46
13.84	28	92.28	43 04	16.16	44	67.24	56 15	16.16	55	27.87	51 28	14.62	8	1.98	0 24	15.70	36	79.78	14 21
14.89	36	94.27	40 53	15.29	47	67.95	58 14	15.21	11 0	28.90	53 28	15.33	21	5.00	7 20	14.74	39	80.48	14 42
15.09	37	94.37	49 05	15.21	50	68.58	53 08	13.45	4	29.94	50 58	15.21	27	6.54	3 33	15.61	48	82.66	18 05
16.16	46	96.57	45 27	14.93	7 0	71.03	51 09	14.81	9	31.21	52 38	14.89	28	6.79	5 54	16.16	51	83.44	18 20
10.78	49	97.43	47 59	12.07	4	71.97	52 01	15.49	10	31.48	56 08	16.16	37	8.86	3 26	14.62	52	83.62	19 27
15.41	49	97.43	48 45	15.09	10	73.44	56 22	15.74	12	31.92	58 03	14.15	40	9.71	8 12	12.86	57	84.79	13 51
13.18	53	98.25	45 35	13.64	20	75.74	58 01	16.16	15	32.62	57 53	15.41	43	10.45	6 03	15.97	8 3	86.36	17 15
12.27	53	98.35	47 59	14.89	23	76.52	51 11	16.16	20	33.85	56 03	14.42	44	10.74	6 51	15.97	5	86.69	10 24
14.62	56	99.06	46 07	15.97	24	76.72	54 11	15.53	22	34.39	54 44	15.82	47	11.46	2 03	12.98	12	88.46	10 18
9.21*	9 6	1.50	49 22	15.01	46	82.02	57 57	14.70	23	34.47	52 52	14.54	48	11.60	6 06	9.92*	17	89.66	10 47
14.89	13	3.25	40 53	13.45	47	82.28	56 18	10.25	29	35.96	50 41	15.97	10 8	16.31	6 21	15.33	19	90.04	19 07
13.06	16	3.76	45 42	16.16	48	82.61	53 16	14.42	31	36.50	51 47	14.93	9	16.65	3 51	15.57	21	90.52	19 39
14.50	26	6.31	46 34	15.70	52	83.56	53 57	11.46	39	38.40	56 27	13.84	14	17.97	0 22	13.45	21	90.63	14 39
12.47	34	8.19	41 33	14.23	8 1	85.65	53 21	10.16	42	39.05	57 02	14.62	16	18.40	0 57	16.16	23	91.10	14 24
14.62	35	8.48	42 01	15.09	9	87.79	54 30	16.16	6 24	62.32	6 06	13.45	21	19.57	0 50	15.82	27	91.93	14 10
15.41	37	9.04	43 46	16.16	14	88.82	53 04	13.06	33	64.64	7 37	14.93	22	19.73	1 46	13.06	29	92.43	19 12
16.16	41	10.02	41 51	16.16	14	88.87	59 58	12.27	35	65.00	3 46	14.89	24	20.20	5 19	15.82	29	92.47	11 52
16.16	45	10.96	44 19	14.70	18	89.86	53 32	15.61	36	65.32	2 45	14.70	26	20.74	9 50	13.84	29	92.56	19 42
16.16	46	11.08	45 07	15.09	20	90.45	50 56	15.74	39	65.85	1 24	15.01	27	21.07	3 55	14.31	30	92.80	10 16
15.49	47	11.45	40 59	15.53	22	90.85	59 04	15.01	46	67.73	0 58	15.29	39	23.83	0 28	14.31	41	95.48	19 19
11.88	47	11.46	49 52	15.49	27	92.09	55 07	13.64	54	69.46	0 31	14.23	52	26.91	9 42	15.01	46	96.68	12 47

25 prec. + 70 sec. — 5′ 40″.

15^{h} Area 83. $+15°$

501—520				521—540				541—560				561—580				581—596			
Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.70	8 58	99.63	16 34	16.16	10 36	23.27	11 37	15.82	6 42	66.71	23 46	15.21	8 19	90.17	25 45	16.16	10 27	21.05	29 01
16.16	9 0	99.95	12 32	15.49	38	23.56	17 29	16.16	44	67.22	29 35	15.97	27	92.09	28 46	14.35	43	24.75	24 48
15.01	5	1.16	16 10	13.64	39	23.97	12 29	15.41	45	67.58	27 55	15.33	27	92.10	20 08	13.84	45	25.33	24 34
15.13	9	2.24	12 07	15.70	43	24.82	16 24	15.74	50	68.72	24 17	14.50	31	92.90	27 03	14.89	49	26.15	21 28
16.16	14	3.46	11 26	15.45	51	26.88	19 55	15.41	52	69.15	22 52	13.06	36	94.18	26 54	14.81	11 4	29.86	29 25
14.93	24	5.82	17 19	16.16	52	27.05	14 11	14.74	57	70.32	22 31	14.89	41	95.42	25 18	16.16	5	30.15	22 10
16.16	29	6.93	10 43	15.01	58	28.38	18 51	14.23	7 9	73.26	29 07	15.01	45	96 27	23 18	10.95	8	30.77	28 06
15.09	32	7.62	15 30	15.13	11 0	28.92	17 17	15.61	21	76.04	27 14	16.16	46	96.74	21 00	15.97	8	30.95	21 46
15.41	39	9.30	12 25	15.82	4	29.97	16 14	13.06	32	78.71	27 32	14.54	49	97.27	28 25	15.29	15	32.61	20 28
15.09	39	9.33	15 13	15.49	5	30.24	13 14	14.03	32	78.82	20 08	14.74	50	97.63	24 44	14.74	25	35.05	29 04
16.16	40	9.68	14 57	15.01	15	32.67	19 07	15.09	39	80.59	23 05	15.49	9 15	3.57	23 09	14.62	28	35.65	29 10
15.33	46	11.11	17 50	16.16	21	34.11	15 20	14.89	50	83.11	25 18	13.96	22	5.21	28 00	13.25	33	36.87	22 49
15.53	53	12.71	16 05	15.21	23	34.55	14 09	16.16	52	83.74	28 58	15.97	24	5.69	29 33	15.13	38	38.10	28 05
15.21	54	13.04	11 25	15.70	25	34.94	17 15	15.09	54	84.11	21 10	11.23	26	6.31	22 26	15.49	40	38.68	29 37
15.49	10 12	17.39	10 02	13.76	27	35.44	19 58	10.58	56	84.47	25 16	12.27	33	8.04	27 20	12.47	44	39.41	24 01
15.09	15	18.07	12 02	15.49	32	36.62	19 46	13.84	59	85.22	25 21	14.62	40	9.53	23 25	15.53	49	40.82	20 25
11.13	16	18.25	16 57	16.16	45	39.72	19 34	16.16	8 0	85.48	20 04	14.89	10 2	15.03	28 57				
13.84	21	19.65	12 18	13.45	6 32	64.28	24 29	12.07	13	88.59	29 32	14.89	12	17.46	27 47				
13.84	33	22.36	12 06	13.92	33	64.59	25 06	14.42	15	89.08	23 27	14.23	13	17.50	25 10				
14.11	36	23.07	16 00	13.45	38	65.69	27 34	14.35	17	89.53	25 14	14.42	24	20.35	20 27				

25 prec. + 70 sec. — 5′ 39″.

16^{h} Area 84. Centre for 1900: 16^{h} 12^{m} + 15°0′. + 14°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60'$	Int. magn.	a	x	$y+60$	Int. magn.	a	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.95	9 28	63.25	21 57	15.24	10 18	75.35	25 31	15.30	11 15	89.05	21 43	14.88	12 36	8.83	25 02	15.14	13 19	19.16	29 20
15.74	29	63.38	23 41	14.04	22	76.32	20 10	15.24	31	93.00	21 43	13.24	40	9.66	21 49	14.78	19	19.20	21 42
15.40	29	63.50	23 03	15.24	24	76.74	26 51	14.98	32	93.32	27 58	15.04	42	10.19	29 18	14.74	20	19.25	21 20
13.95	32	64.04	28 15	14.26	27	77.42	28 12	13.01	44	96.18	21 32	11.50	42	10.27	25 14	15.24	26	20.74	22 02
13.01	32	64.04	22 46	15.14	29	78.08	26 57	12.57	44	96.22	24 03	15.74	43	10.53	28 54	15.74	26	20.82	28 58
11.33	34	64.76	29 10	15.30	33	78.84	20 03	14.40	50	97.53	25 00	13.12	47	11.34	21 11	14.26	26	20.88	23 43
14.50	37	65.48	27 36	15.55	41	80.76	26 13	15.74	12 0	0.09	27 44	13.12	53	12.76	29 23	13.86	28	21.23	28 27
12.03	38	65.53	23 36	12.93	47	82.36	24 46	15.40	4	0.92	24 06	12.75	55	13.43	27 42	14.78	36	23.17	26 43
13.86	38	65.73	27 12	13.95	49	82.90	23 11	15.74	6	1.38	26 39	15.30	56	13.44	29 09	14.78	43	24.89	28 55
13.52	47	67.79	20 33	15.04	50	83.11	26 40	14.04	8	1.93	23 25	14.35	56	13.51	29 55	14.88	45	25.48	24 42
14.88	48	68.01	20 45	14.40	53	83.70	23 04	13.44	14	3.43	21 00	14.04	13 0	14.47	26 58	13.24	49	26.36	24 54
14.40	55	69.63	29 54	14.50	53	83.72	22 03	13.44	18	4.36	24 14	14.98	2	15.03	29 18	15.30	53	27.43	20 03
11.50	59	70.66	26 46	12.82	54	83.96	29 39	14.31	18	4.46	29 06	13.95	3	15.18	23 12	13.65	54	27.68	24 03
15.74	10 6	72.29	25 57	15.74	55	84.35	25 47	15.40	21	5.12	29 21	15.74	4	15.41	28 01	14.98	57	28.28	28 10
13.95	6	72.37	21 53	13.95	58	85.01	27 52	14.54	26	6.34	20 18	14.64	5	15.65	29 38	15.55	14 0	29.04	25 55
15.74	7	72.76	27 41	15.40	11 2	85.92	27 59	15.04	27	6.49	26 08	14.40	5	15.77	21 25	12.68	1	29.25	28 58
14.17	9	73.18	22 58	15.04	4	86.46	21 03	11.68	28	6.72	20 18	13.05	14	17.85	25 17	14.50	6	30.44	28 48
15.04	10	73.48	27 16	13.52	6	86.97	21 13	13.65	30	7.23	27 28	15.74	16	18.48	22 00	15.40	14	32.35	24 03
15.74	14	74.36	24 44	13.52	12	88.46	20 04	15.30?	31	7.39	29 36	15.30	17	18.60	29 19	14.04	17	33.07	26 34
15.74	14	74.45	25 59	14.50	13	88.51	24 47	15.14	35	8.53	23 06	14.40	19	19.10	26 11	15.14	17	33.14	25 11

25 prec. + 69 sec. — 3′ 48″.

Area 84.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.74	14 18	33.53	29 49	13.44	11 32	93.13	34 17	11.50	14 32	36.73	36 34	14.54	12 36	8.61	40 45	15.14	10 3	71.79	55 57
14.64	20	33.91	20 02	15.74	42	95.71	35 55	14.88	36	37.63	33 54	15.40	36	8.62	49 36	12.75	3	71.79	56 06
14.74	21	34.06	23 42	12.03	45	96.38	32 32	14.26	38	38.17	30 18	14.98	38	9.09	45 55	15.40	11	73.73	53 39
14.40	23	34.62	26 54	15.40	45	96.45	38 10	14.69	41	38.95	39 50	11.00	39	9.34	48 26	15.55	17	75.11	51 00
15.55	23	34.69	24 22	13.32	50	97.67	37 10	15.74	41	39.03	39 30	12.57	39	9.54	46 11	14.54	18	75.28	56 10
15.04	24	34.75	25 52	13.52	52	98.11	32 48	15.74	42	39.18	39 17	14.64	43	10.49	43 12	12.21	20	75.77	52 27
15.30	24	34.81	29 24	14.88	53	98.40	35 48	15.04	46	40.06	35 58	15.74	44	10.71	46 43	15.74	23	76.60	58 32
14.78	25	35.05	20 12	9.34*	57	99.32	32 59	14.04	46	40.25	32 25	13.82	45	10.78	44 21	15.74	30	78.24	53 27
13.95	26	35.39	20 25	13.52	12 2	0.53	35 01	11.16	48	40.52	34 40	15.74	13 3	15.19	47 53	12.57	31	78.45	58 57
15.04	26	35.47	21 33	13.56	6	1.40	30 24	15.55	51	41.26	37 02	15.24	12	17.29	45 34	12.86	31	78.61	54 52
15.14	36	37.66	29 10	15.74	10	2.34	33 48	14.54	9 28	63.15	45 04	15.74	12	17.45	46 55	15.30	32	78.75	58 11
15.55	37	38.05	24 10	14.78	10	2.39	37 46	15.74	28	63.32	41 09	13.95	14	17.89	41 53	14.54	35	79.39	51 48
15.04	42	39.27	22 35	13.61	11	2.63	31 10	13.82	36	65.20	41 58	15.24	17	18.55	41 11	15.55	37	80.06	59 15
15.04	44	39.59	21 07	15.74	14	3.45	34 09	13.86	38	65.59	46 06	14.04	20	19.24	41 23	14.98	38	80.25	58 32
14.50	45	39.97	21 40	13.52	14	3.50	35 18	15.55	43	66.94	42 55	12.57	22	19.88	40 52	15.74	38	80.27	51 27
15.74	46	40.09	25 31	13.52	37	8.96	38 37	15.55	44	67.12	42 29	13.95	23	20.11	45 33	14.69	40	80.66	50 14
14.64	49	40.81	24 44	15.74	38	9.15	30 47	11.05	45	67.28	49 20	12.39	32	22.36	42 25	15.74	40	80.76	51 36
14.88	50	41.24	27 32	13.52	39	9.39	39 17	15.74	47	67.80	48 02	15.74	35	22.96	46 14	15.04	48	82.65	57 00
13.73	51	41.40	22 21	15.40	41	9.85	34 06	15.19	52	69.11	49 33	15.14	41	24.52	49 24	14.54	50	83.16	55 53
15.40	54	42.10	28 45	15.55	42	10.10	33 09	15.74	53	69.29	41 31	12.86	55	27.91	46 16	15.40	57	84.83	57 38
14.54	56	42.52	27 45	12.93	51	12.35	38 45	15.14	10 10	73.40	43 15	15.74	57	28.37	45 33	15.24	59	85.19	57 17
15.55	9 29	63.35	30 13	13.86	52	12.60	39 05	13.73	10	73.53	45 56	15.74	14 8	30.98	42 41	10.12	11 1	85.78	55 36
14.88	29	63.50	37 52	15.74	54	12.96	36 24	12.61	15	74.54	40 08	12.75	9	31.15	44 57	14.26	25	91.64	51 38
14.04	30	63.66	32 03	13.95	57	13.72	37 47	15.04	18	75.34	44 01	14.31	11	31.56	43 00	15.74	29	92.43	54 44
15.40	37	65.34	32 50	14.26	59	14.23	38 12	15.74	18	75.43	47 13	14.50	11	31.62	42 29	14.98	32	93.22	56 53
13.20	39	65.85	35 27	14.40	13 3	15.17	34 07	15.74	24	76.77	48 43	14.26	12	32.02	45 20	15.74	40	95.22	56 31
15.74	40	66.15	33 46	15.04	3	15.28	34 45	14.50	25	77.10	43 56	15.74	13	32.18	41 18	14.13	41	95.37	50 04
13.86	40	66.23	37 51	13.40	6	16.03	35 15	14.74	26	77.33	48 06	13.12	14	32.28	41 51	14.50	46	96.74	56 42
14.78	52	69.14	38 59	15.14	10	16.89	37 39	14.78	28	77.73	48 09	14.50	23	34.68	43 41	14.26	50	97.52	54 00
14.78	54	69.49	37 26	11.68	12	17.40	38 16	14.74	32	78.75	48 45	13.61	25	35.11	41 02	14.54	12 2	0.40	52 59
11.85	54	69.60	33 12	15.74	14	17.93	30 08	14.50	36	79.80	42 05	14.98	28	35.77	40 53	12.93	3	0.75	55 47
15.74	10 17	75.06	35 39	15.74	17	18.73	35 00	11.16	45	81.79	46 47	11.68	29	36.03	45 49	11.33	4	1.08	54 58
12.39	21	76.02	34 57	15.04	22	19.86	34 51	14.40	11 0	85.50	42 35	14.88	29	36.14	40 21	14.88	11	2.58	58 55
14.17	26	77.25	31 18	14.54	29	21.55	31 39	14.88	2	86.08	46 32	15.14	38	38.11	43 12	12.03	16	3.89	56 38
14.54	26	77.31	39 47	15.74	30	21.81	30 40	15.74	10	87.81	47 47	13.91	40	38.69	40 06	12.57	18	4.38	52 43
15.74	30	78.30	37 32	14.04	40	24.17	37 53	15.74	16	89.27	46 21	13.86	41	38.87	45 29	15.74	20	4.87	58 42
11.50	31	78.54	31 33	15.14	41	24.49	36 59	15.30	26	91.90	41 02	14.64	52	41.58	41 44	12.75	21	5.13	52 54
13.44	37	79.87	35 21	12.03	43	25.03	31 43	15.74	27	91.95	46 05	14.26	9 27	63.08	55 24	14.98	22	5.25	55 19
15.40	42	81.12	31 39	15.40	44	25.17	39 33	11.85	30	92.67	40 47	15.55	30	63.68	52 26	14.31	22	5.27	54 48
15.74	46	82.07	32 02	14.98	45	25.39	37 50	14.26	37	94.54	45 55	14.17	33	64.46	53 13	15.24	24	5.70	51 12
14.54	50	83.09	31 47	13.05	47	25.83	30 54	14.88	49	97.25	41 50	15.04	39	66.01	55 41	13.40	32	7.67	52 49
13.86	57	84.82	34 26	13.28	49	26.43	39 37	15.24	51	97.75	47 03	10.30	41	66.33	52 54	14.50	33	8.02	57 27
13.05	57	84.84	36 33	15.40	51	26.94	37 28	14.17	54	98.66	41 49	11.33	44	67.03	54 03	15.74	36	8.79	54 46
15.04	59	85.14	31 38	14.78	14 3	29.74	30 40	12.75	12 0	99.96	43 18	15.74	44	67.24	52 24	15.74	39	9.34	55 50
15.30	11 3	86.28	30 04	14.69	4	29.90	30 09	14.26	13	3.05	41 03	14.64	45	67.33	57 44	15.55	45	10.77	57 03
14.40	5	86.58	32 37	13.95	10	31.57	39 50	14.54	13	3.13	44 30	15.14	46	67.55	54 55	14.26	46	11.14	54 05
13.73	18	89.92	35 40	14.17	16	32.88	33 38	13.36	28	6.89	40 24	12.93	47	67.87	57 07	15.74	47	11.28	56 52
14.50	23	91.07	37 35	13.65	16	32.97	32 07	14.98	29	6.95	40 43	14.40	56	70.03	55 20	13.61	48	11.68	59 42
14.50	27	92.06	36 41	14.78	17	33.04	34 05	15.74	32	7.69	44 38	14.54	59	70.88	53 37	14.54	49	11.78	56 30
9.90	31	92.91	36 56	14.50	23	34.57	33 24	14.50	32	7.85	41 05	15.74	10 2	71.45	55 09	14.50	50	11.96	56 55

25 prec. + 69 sec. — 3′ 47″.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	y+60′ / y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.40	13 6	16.07	56 54	13.91	10 12	73.90	9 53	14.26	13 12	17.41	1 53	14.31	10 40	80.69	10 29	14.88	14 14	32.37	12 42
14.31	10	16.84	50 06	14.40	23	76.50	4 47	14.40	17	18.63	5 26	13.82	50	83.04	15 22	15.74	17	33.03	15 39
14.74	11	17.16	56 00	14.40	36	79.71	1 43	13.24	20	19.25	2 08	12.79	50	83.10	19 56	15.74	23	34.48	16 33
14.50	12	17.29	58 50	15.04	37	79.91	3 44	15.14	22	19.72	9 15	15.55	55	84.36	14 24	15.74	28	35.70	18 01
14.74	13	17.74	52 40	14.08	42	81.23	8 33	15.04	25	20.44	5 03	15.04	56	84.48	16 30	15.55	30	36.15	11 16
15.55	17	18.70	57 03	15.14	53	83.88	9 48	13.44	26	20.77	7 28	15.74	11 2	86.11	19 12	14.98	30	36.29	15 54
15.40	18	18.88	57 26	15.04	54	83.99	4 10	13.12	27	21.07	1 16	15.74	5	86.70	13 11	14.98	32	36.66	10 52
10.29	19	18.99	54 47	15.55	54	84.10	1 47	13.86	29	21.44	8 38	15.55	5	86.82	12 38	15.74	32	36.75	15 53
13.20	19	19.05	51 59	13.73	55	84.29	4 45	13.44	30	21.65	2 53	13.05	7	87.18	19 54	15.74	34	37.25	15 53
14.17	20	19.33	52 59	14.74	11 5	86.61	8 17	15.04	33	22.47	1 52	13.82	11	88.26	15 38	15.74	35	37.43	14 48
13.65	21	19.59	59 17	12.39	10	87.83	1 47	15.74	37	23.35	9 32	15.74	34	93.66	11 01	11.33	37	37.91	14 10
15.74	26	20.66	50 17	14.04	10	88.02	5 33	15.74	42	24.74	2 55	12.75	36	94.26	10 29	15.74	46	39.92	14 33
13.32	31	21.87	59 08	15.14	11	88.09	3 35	15.74	49	26.30	1 50	14.88	44	96.12	19 51	15.74	53	41.64	19 20
12.03	42	24.56	51 13	15.40	15	89.18	1 49	15.74	55	27.83	8 37	14.40	48	97.00	19 08	14.98	54	41.88	14 23
14.78	46	25.72	53 33	15.74	19	90.03	2 31	14.31	56	27.95	7 37	14.31	48	97.08	11 29	15.40	57	42.76	14 14
15.40	51	26.84	51 29	13.78	22	90.87	9 42	15.74	14 11	31.70	1 29	13.86	53	98.29	15 35	15.24	9 35	65.00	25 55
11.68	52	27.17	55 43	13.86	23	91.14	8 59	14.74	13	32.07	5 48	15.74	55	98.77	11 32	15.30	36	65.34	28 41
14.17	53	27.26	57 01	15.30	27	91.95	4 02	13.82	16	32.80	3 55	12.86	12 0	99.92	14 45	15.74	42	66.63	22 18
13.86	55	27.70	53 02	14.78	28	92.38	9 18	15.55	17	33.09	2 46	15.40	5	1.21	14 09	14.31	43	66.88	21 51
14.74	56	28.08	55 59	14.26	30	92.68	3 06	15.74	20	33.71	9 27	15.14	8	1.82	13 52	13.44	43	67.05	28 12
15.74	14 2	29.47	54 19	11.00	33	93.41	0 00	14.64	21	34.03	6 25	13.86	8	1.88	19 14	14.08	45	67.53	27 50
13.52	3	29.64	54 15	15.14	34	93.72	8 25	14.04	23	34.50	9 31	14.04	13	3.23	12 49	15.74	47	67.95	21 40
14.98	3	29.70	52 28	12.86	38	94.70	2 32	15.14	24	34.80	1 42	12.39	14	3.35	19 12	14.26	51	69.00	26 27
15.74	4	29.88	57 14	11.33	42	95.62	2 55	15.14	33	37.02	6 19	15.55	16	3.90	15 05	15.24	58	70.62	29 24
15.74	9	31.12	56 11	15.74	46	96.71	8 36	15.04	39	38.30	6 46	15.04	19	4.57	12 38	14.98	10 6	72.42	25 53
15.30	10	31.33	57 48	15.74	48	97.04	7 05	14.88	40	38.54	5 47	14.54	30	7.34	12 52	14.98	7	72.80	25 23
14.78	12	31.92	58 16	14.04	52	98.08	6 23	15.74	40	38.59	8 28	13.40	31	7.58	10 49	14.64	15	74.64	27 53
15.74	17	33.19	55 18	13.82	53	98.34	4 18	15.74	44	39.57	6 49	15.74	32	7.83	18 08	14.31	15	74.78	24 43
15.55	18	33.33	50 36	15.14	54	98.61	4 17	15.74	46	40.11	2 18	15.74	36	8.75	12 00	14.40	19	75.76	25 53
14.26	21	33.99	58 21	14.88	12 0	0.06	0 12	15.04	49	40.70	5 31	14.26	44	10.66	16 20	13.20	21	76.10	20 10
14.50	24	34.72	56 10	14.04	0	0.11	1 55	14.88	52	41.63	2 40	14.78	13 4	15.36	14 14	15.30	25	77.20	25 12
15.74	35	37.34	56 39	14.74	2	0.55	6 16	15.40	9 27	63.15	15 16	15.74	6	15.95	14 14	15.74	26	77.32	24 53
14.31	35	37.53	51 25	11.85	3	0.70	5 11	14.98	30	63.94	15 54	15.74	12	17.46	19 38	14.88	26	77.42	20 42
12.86	36	37.79	52 56	14.50	6	1.54	6 52	15.74	35	65.03	14 46	15.74?	14	17.95	16 33	15.74	37	79.96	29 27
15.74	49	40.92	52 24	8.65*	11	2.69	2 17	14.40	37	65.44	17 13	15.74	18	18.75	10 44	14.88	45	81.99	22 53
11.68	57	42.84	56 17	13.65	19	4.61	1 34	14.31	38	65.64	13 15	15.74	20	19.39	18 56	15.74	52	83.50	28 49
13.08	9 30	63.84	9 48	15.40	19	4.68	6 26	14.54	45	67.42	13 18	14.78	25	20.57	17 05	13.52	54	84.08	25 24
15.74	31	64.02	9 36	15.74	23	5.51	9 21	14.64	45	67.42	14 29	15.74	35	22.80	18 19	14.54	56	84.57	29 15
11.50	32	64.22	3 08	10.93	25	6.02	9 03	13.05	45	67.45	14 40	15.24	39	23.82	19 59	15.74	11 5	86.70	29 12
15.74	33	64.55	4 36	13.20	27	6.46	1 46	14.50	46	67.74	15 44	14.31	44	24.96	11 22	15.74	8	87.53	25 52
14.74	39	65.93	5 56	15.74	31	7.39	8 35	15.19	53	69.43	19 23	15.55	45	25.24	10 37	15.40	10	87.84	22 33
12.86	39	65.98	4 08	15.55	37	8.85	6 04	13.12	10 2	71.64	19 48	11.85	48	26.14	12 52	15.74	10	87.90	28 15
15.04?	52	69.05	8 44	14.31	42	10.21	3 28	14.40	9	73.33	12 02	15.74	57	28.13	11 31	14.50	14	88.79	29 17
14.26	56	70.17	5 30	15.74	44	10.51	9 14	13.12	12	73.85	13 44	14.74	58	28.35	17 00	15.74	15	89.15	27 12
14.31	58	70.53	5 27	14.04	47	11.46	2 01	15.74	17	75.27	14 23	13.24	58	28.46	13 21	15.14	20	90.38	25 33
15.74	59	70.90	2 04	15.40	51	12.29	3 52	14.31	18	75.39	16 40	14.64	14 4	29.88	13 54	15.55	30	92.65	21 27
13.86	10 0	70.98	1 59	14.26	52	12.60	0 53	15.14	21	76.05	17 40	13.32	8	30.83	19 05	15.74	34	93.65	23 36
14.17	5	72.33	2 55	15.24	58	13.92	7 07	14.54	28	77.81	17 45	14.88	8	30.88	14 05	12.93	37	94.45	28 36
15.74	6	72.39	2 15	15.74	13 0	14.36	7 26	14.08	34	79.27	18 34	14.98	8	30.97	10 26	15.40	39	94.88	23 42
10.47	11	73.70	4 22	13.16	11	17.20	9 50	15.40	39	80.46	18 52	14.40	13	32.00	10 08	15.55	40	95.23	26 25

25 prec. + 69 sec. — 3′ 47″.

601—640				641—680				681—720				721—760				761			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.40	11 44	96.25	25 59	14.98	13 31	21.85	22 15	15.04	10 16	74.93	36 44	12.03	12 31	7.45	36 29	14.64	14 53	41.55	37 29
14.08	51	97.73	26 30	15.74	33	22.47	24 46	11.33	18	75.50	30 34	14.54	32	7.82	33 26				
14.04	52	98.00	29 16	13.95	40	24.08	28 28	13.44	20	75.83	30 29	15.74	34	8.18	36 53				
13.69	55	98.84	20 12	13.12	45	25.35	28 00	13.86	20	76.04	31 37	14.88	35	8.35	35 32				
15.74	59	99.76	25 47	13.56	48	25.92	29 42	14.31	22	76.35	36 59	11.68	36	8.66	33 51				
14.26	12 3	0.62	23 42	11.85	51	26.74	24 35	13.86	23	76.60	33 14	12.75	39	9.42	37 11				
11.33	6	1.43	23 34	14.17	51	26.83	25 43	15.74	23	76.70	31 39	15.74	43	10.40	34 24				
14.40	7	1.59	26 22	15.55	53	27.22	29 20	14.64	27	77.53	35 24	15.74	44	10.47	36 48				
11.33	7	1.76	29 20	14.93	57	28.20	29 24	15.55	31	78.50	38 43	15.74	50	11.98	33 21				
15.40	8	1.98	24 45	15.74	58	28.44	23 11	14.08	31	78.53	33 48	15.74	53	12.84	38 21				
15.55	14	3.25	20 46	14.59	59	28.70	20 08	14.78	34	79.22	33 51	14.50	56	13.51	37 55				
13.86	15	3.63	29 30	14.26	14 3	29.54	26 44	15.14	38	80.18	37 50	15.04	59	14.30	38 59				
14.08	18	4.30	23 08	13.82	6	30.38	27 02	12.03	41	81.06	32 01	15.74	13 10	16.97	34 44				
13.95	27	6.59	21 52	15.19	8	30.93	29 19	14.17	43	81.50	36 40	14.54	13	17.48	39 09				
14.69	28	6.83	20 10	12.21	9	31.18	23 46	14.88	44	81.60	32 07	15.74	14	17.82	35 45				
15.55	30	7.16	26 21	15.14	14	32.32	25 35	15.14	44	81.71	33 13	15.74	18	18.81	34 49				
15.74	35	8.53	22 20	15.04	22	34.19	25 41	12.68	45	81.93	38 40	13.95	40	23.97	37 27				
15.30	37	9.03	28 21	11.16	23	34.48	27 28	14.54	48	82.75	35 54	15.55	41	24.27	38 43				
14.98	44	10.65	27 43	15.74	28	35.64	20 28	15.55	51	83.27	37 44	13.86	46	25.52	39 44				
15.74	47	11.30	27 08	15.30	43	39.29	26 18	14.74	51	83.48	31 58	12.57	54	27.41	36 47				
15.14	49	11.84	22 29	9.48	46	39.91	25 57	14.17	59	85.32	38 54	12.21	14 3	29.63	39 52				
15.74	53	12.84	24 57	14.54	52	41.39	21 30	12.21	11 0	85.49	31 20	15.74	6	30.41	33 31				
15.55	56	13.47	29 48	12.75	54	42.04	29 05	15.74	5	86.72	37 24	15.74	7	30.64	38 22				
15.74	58	13.90	25 50	14.54	9 30	63.80	37 21	15.74	16	89.34	35 55	15.24	11	31.56	32 47				
14.59	58	14.10	20 02	15.04	30	63.84	33 09	14.98	17	89.71	38 52	14.54	11	31.64	38 50				
14.50	13 0	14.51	28 49	15.74	31	64.17	38 14	15.40	17	89.75	33 19	11.33	16	32.76	31 10				
14.17	2	14.86	25 39	15.74	32	64.31	31 57	14.40	39	94.90	37 58	15.74	21	33.95	37 49				
14.26	3	15.17	22 52	15.40	32	64.40	30 56	11.85	43	95.92	34 33	15.74	26	35.25	37 17				
13.52	13	17.56	22 00	13.95	33	64.68	32 06	15.55	44	96.06	33 27	15.40	28	35.64	38 24				
15.30	16	18.38	20 46	15.30	34	64.86	31 24	15.74	46	96.75	38 22	15.74	30	36.08	38 08				
13.20	17	18.45	20 24	14.78	38	65.76	37 39	12.03	49	97.24	33 52	15.04	32	36.54	33 44				
11.33	19	19.05	24 13	14.50	40	66.20	33 57	14.98	52	97.97	37 42	14.74	32	36.58	38 16				
15.55	20	19.26	23 38	13.95	40	66.38	38 30	12.39	55	98.74	39 14	13.52	33	36.81	31 29				
12.03	20	19.34	27 39	14.04	46	67.65	37 52	15.74	56	98.92	36 59	15.74	33	36.82	33 56				
15.14	23	19.91	24 33	13.20	47	67.88	35 04	13.32	12 1	0.31	37 21	15.04	36	37.46	39 01				
10.89	24	20.23	28 13	12.75	47	67.90	30 34	12.75	7	1.64	38 58	15.24	38	38.13	30 58				
13.86	26	20.69	25 47	14.26	47	68.06	31 53	15.04	11	2.64	33 37	14.74	39	38.22	37 24				
12.03	26	20.76	29 56	15.55	10 1	71.23	31 21	15.24	14	3.42	39 07	14.04	50	40.86	39 35				
13.65	28	21.18	28 22	10.84	9	73.25	32 34	14.88	21	5.13	37 21	11.26	50	41.03	30 08				
15.30	28	21.21	24 13	14.26	13	74.17	33 26	14.88	28	6.68	36 44	15.74	51	41.28	36 16				

25 prec. + 68 sec. — 3′ 46″.

Area 85. Centre for 1900: 17^{h} 10^{m} + 15° 0′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.93	8 59	85.26	32 40	13.76	10 36	8.78	36 30	14.37	12 41	38.99	32 38	14.76	10 15	3.73	41 43	7.9[3]	12 0	29.06	47 13
15.23	9 2	85.91	34 56	15.57	37	8.86	33 26	14.53	42	39.09	34 52	14.48	19	4.57	47 46	15.23	2	29.41	42 28
14.26	3	86.18	33 33	14.53	37	8.99	32 40	15.57	42	39.27	37 46	12.00	24	5.83	48 13	14.59	3	29.72	40 08
14.53	9	87.55	38 40	15.57	38	9.13	33 29	15.23	45	39.84	37 08	11.45	24	5.90	44 21	15.57	4	29.97	49 33
14.53	10	87.94	34 25	13.86	43	10.51	34 59	15.05	45	39.98	37 52	14.76	28	6.87	49 28	10.53	6	30.35	41 53
15.57	12	88.31	32 20	13.96	44	10.65	37 48	15.11?	47	40.36	34 28	15.57	28	6.89	42 18	13.49	6	30.42	44 36
13.62	13	88.61	37 54	14.48	45	10.78	30 38	15.57	49	40.85	38 48	14.53	35	8.45	46 46	15.57	7	30.72	43 50
15.57	13	88.65	34 09	14.00	45	10.88	31 47	15.05	51	41.29	36 29	13.31	35	8.55	44 42	14.21	8	30.91	40 15
15.57	13	88.71	35 20	10.98	47	11.30	31 36	11.45	52	41.72	30 44	14.76	37	9.01	42 29	14.82?	12	31.99	42 53
14.82	14	88.89	36 20	14.10	47	11.32	38 08	12.77	8 50	83.01	44 12	15.23	40	9.60	45 11	14.21	16	32.90	40 16
12.97	16	89.33	35 46	15.57	49	11.92	33 06	14.64	51	83.29	40 09	15.57	41	9.90	44 41	14.93	19	33.54	41 30
14.82	21	90.56	37 42	15.57	56	13.54	38 41	11.63	52	83.48	48 31	13.27	44	10.70	42 56	14.53	20	33.88	48 55
15.23	23	91.11	30 50	15.38	11 5	15.68	34 57	15.57	52	83.61	48 12	13.86	45	10.90	43 51	14.48	21	34.03	49 07
14.93	24	91.23	37 59	15.05	8	16.36	34 19	12.19	58	84.90	41 51	14.21	49	11.89	42 54	14.53	22	34.25	41 28
14.53	26	91.73	32 50	14.53	15	18.26	30 54	14.00	9 4	86.42	40 02	15.23	52	12.67	40 53	15.23	22	34.42	46 38
14.21	30	92.73	33 33	15.11	16	18.31	30 41	13.62	6	86.83	45 57	15.57	53	12.93	43 17	14.53	22	34.45	41 03
12.89	32	93.13	32 18	12.69	16	18.43	35 44	15.57?	8	87.38	48 26	13.62	54	13.18	47 45	8.2[3]	32	36.72	47 26
14.82	32	93.32	35 50	15.23?	17	18.61	31 18	15.57	9	87.62	47 29	15.57	58	13.97	49 24	15.23	34	37.32	47 07
14.00	33	93.37	31 12	14.21	18	18.80	37 43	14.64	9	87.65	48 06	12.77:	58	14.09	41 14	15.23	34	37.34	40 52
15.57	34	93.72	37 15	14.93	18	18.93	34 56	14.82	12	88.47	43 41	15.57	11 2	15.08	46 41	12.00	36	37.63	46 34
13.72	35	93.87	35 50	14.48	18	18.95	31 39	14.64	13	88.59	49 36	14.48	7	16.13	42 57	15.57	37	37.88	40 02
14.93	36	94.09	30 40	15.23	25	20.54	38 48	9.07	15	89.04	41 33	13.02	8	16.54	49 52	15.57	38	38.25	42 08
14.82	36	94.28	37 26	15.57	29	21.56	38 05	15.57	15	89.12	48 17	14.53	9	16.75	42 17	14.10	43	39.46	47 07
15.38	40	95.25	34 47	14.93	34	22.68	35 11	13.86	23	91.16	45 42	15.57	12	17.47	43 54	14.64	45	39.78	43 57
14.82	44	96.04	35 36	14.37	34	22.83	38 34	15.11	24	91.23	47 05	14.21	13	17.55	44 36	14.26	45	39.83	43 42
15.57	46	96.65	30 29	14.00	34	22.84	32 59	14.64	24	91.25	42 34	14.37	14	17.88	44 57	12.97	47	40.41	46 23
13.86	48	97.13	39 22	14.93	36	23.33	30 51	15.57	25	91.62	42 33	12.77	15	18.08	43 10	13.62	52	41.53	45 44
12.85	49	97.34	31 08	15.11	43	24.82	34 42	15.57	35	93.93	48 25	13.62	17	18.62	41 19	14.10	56	42.50	42 50
14.76	50	97.69	34 51	15.57	44	25.09	35 19	15.57	36	94.15	47 47	13.81	20	19.32	49 46	14.21	56	42.67	49 33
15.57	51	97.91	33 35	15.57	44	25.24	32 26	14.21	36	94.17	42 00	13.27	23	20.17	43 56	15.57	8 52	83.69	58 43
14.76	53	98.31	37 21	14.48	45	25.40	34 46	15.38	37	94.37	46 58	15.23	24	20.27	43 38	15.57	53	83.82	50 39
14.82	53	98.38	35 06	14.93	46	25.53	35 57	15.57	39	94.92	45 31	15.05?	24	20.36	46 17	14.21	54	84.07	58 14
14.00	56	99.13	37 59	13.62	48	26.18	38 28	13.27	41	95.51	47 43	11.63	26	20.78	44 26	15.57	9 0	85.55	57 15
15.57	57	99.26	36 35	14.37	49	26.26	33 09	14.82	44	96.10	43 55	15.57	27	21.00	48 15	11.81	3	86.33	55 40
13.62	57	99.31	36 04	15.23	50	26.73	34 33	13.72	46	96.55	42 34	15.38	28	21.17	49 56	13.53	8	87.40	53 52
4.99[1]	10 5	1.31	30 14	13.86	52	27.01	34 39	8.0[2]	47	96.79	40 04	14.00	31	21.97	44 26	14.15	10	87.90	50 22
14.76	7	1.60	31 59	14.64	59	28.85	31 00	14.53	48	97.07	47 56	15.38	33	22.45	46 21	14.53	14	88.86	56 20
12.69	9	2.17	31 18	14.48	12 9	31.26	32 51	14.64	49	97.41	41 50	14.82?	34	22.69	45 48	14.26	14	88.94	56 05
13.96	14	3.40	39 28	15.57	10	31.40	30 03	11.45	52	98.17	48 46	14.10	34	22.76	42 49	15.23	15	89.22	53 44
13.18	16	3.82	36 20	14.82	12	31.89	36 30	12.00	53	98.33	44 42	15.38	36	23.26	47 31	13.76	19	90.08	53 39
14.00	16	3.93	31 15	14.37	13	32.21	34 40	15.05	55	98.73	43 19	15.11	37	23.46	46 31	14.48	19	90.19	51 02
14.37	17	4.11	39 35	13.86	25	34.98	38 55	14.76	56	99.04	40 57	15.57	40	24.20	48 07	12.97	23	91.15	59 05
15.57	19	4.71	30 11	14.76	28	35.85	30 21	14.76	10 2	0.57	44 34	12.00	41	24.33	43 45	15.57	26	91.90	54 06
14.21	21	5.01	33 22	14.00	29	35.97	37 47	14.93	3	0.65	46 21	14.93	42	24.66	43 18	14.48	29	92.44	55 40
14.37	23	5.61	31 35	15.57	31	36.42	36 20	12.57	6	1.33	48 44	14.00	47	25.98	48 20	15.57	29	92.45	55 14
15.57	24	5.91	34 51	15.38	31	36.43	30 01	15.57	6	1.41	42 34	13.96	51	26.75	41 39	15.23?	32	93.28	56 16
14.48	26	6.31	34 40	14.93	31	36.43	30 17	15.38	6	1.48	43 50	15.57	57	28.38	45 59	11.81	41	95.47	59 59
14.53	31	7.56	34 07	15.57	31	36.58	39 19	15.57	7	1.81	48 56	15.23	58	28.55	43 51	14.00	42	95.63	56 06
15.57	33	8.04	38 35	14.10	35	37.58	31 21	15.05	13	3.08	43 56	14.82?	12 0	28.89	40 09	15.38	43	95.82	50 06
15.11	34	8.26	30 40	14.53	39	38.44	33 38	15.05	13	3.09	41 12	15.57	0	28.97	43 36	14.76	44	96.15	58 24

25 prec. + 68 sec. — 1′ 47″.

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[1] α Hercules. Duplex. According to Harv. Ann. 50 combined magn. 3.31. Spectr. Mb; therefore (Harv. Ann. 71): Photogr. — Vis. magn. = + 1.68.

[2] Magn. extremely uncertain. In A.G.C. 8.1.

[3] Magnitude uncertain, extrapolated.

17^{h}

Area 85.

+ 14°, + 15°

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′ / y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.76	9 45	96.47	58 14	14.76	11 41	24.40	51 30	13.53	9 8	87.52	6 29	14.53	11 24	20.25	2 21	13.18	12 49	40.73	4 11
13.91	46	96.57	59 50	15.57	43	24.80	59 11	12.97	12	88.34	8 29	13.18	30	21.61	2 14	15.57	51	41.31	6 32
14.48	47	96.84	56 32	13.27	44	25.13	51 20	13.18	12	88.43	9 38	15.23	30	21.71	8 19	15.57	54	41.90	1 36
14.10	50	97.48	53 32	15.57	45	25.31	58 40	14.26?	15	89.22	7 18	14.82	31	22.02	8 36	14.64	55	42.28	9 36
14.26	53	98.36	51 30	12.11	50	26.49	51 58	9.57*	17	89.61	0 30	12.77	32	22.19	3 51	13.53	58	42.89	8 07
14.10	55	98.84	58 59	11.63	50	26.50	50 11	12.30	18	89.93	5 18	13.72	32	22.33	8 48	14.82	8 51	83.44	15 04
14.21	57	99.28	55 01	14.93	50	26.61	57 40	14.93	21	90.52	5 07	13.10	34	22.63	6 35	15.57	52	83.48	14 23
15.23	10 0	0.00	59 28	12.50	50	26.68	54 04	13.53	26	91.80	4 30	15.57	35	22.88	4 35	13.10	52	83.50	10 19
15.57	2	0.48	59 38	14.53	54	27.64	56 13	14.21	29	92.54	2 33	14.64	35	22.99	9 17	13.76	58	85.00	17 18
15.57	3	0.80	55 57	12.77	57	28.17	56 32	12.19	32	93.36	7 02	10.77	36	23.18	9 24	14.64	58	85.13	16 06
14.15	5	1.26	59 43	11.81	12 2	29.56	58 48	15.23	37	94.38	8 56	14.37	37	23.41	1 32	14.26	59	85.23	12 06
14.37	7	1.76	57 52	14.64	5	30.24	54 14	14.93	38	94.73	8 23	15.57	44	25.02	5 26	15.57	9 10	87.95	18 55
15.57	8	1.84	58 33	14.93	5	30.26	50 56	13.40	41	95.49	0 28	14.48	48	26.10	1 28	12.38	12	88.43	15 20
15.38	8	1.99	56 34	15.57	6	30.33	54 33	14.82	43	95.88	4 06	14.10	51	26.69	3 46	11.27	13	88.59	15 40
14.10	9	2.22	57 46	15.57?	11	31.69	59 45	13.10	43	95.94	4 37	14.21	53	27.28	6 18	14.76	14	88.87	17 11
14.53	11	2.57	58 06	13.27	13	32.06	56 32	14.26	47	96.87	2 31	13.72	56	27.93	8 35	15.57	15	89.11	17 16
14.64	12	2.81	53 20	15.05	14	32.25	54 41	15.57	55	98.68	5 39	15.57	57	28.26	7 39	15.23	15	89.13	15 24
15.57	15	3.71	57 47	11.63	14	32.45	51 41	12.57	55	98.70	1 29	14.53	59	28.73	1 02	14.53	15	89.22	16 36
14.26	18	4.40	56 06	15.38	15	32.68	54 04	14.37	59	99.71	2 44	15.57	12 0	29.00	6 02	13.86	19	90.01	19 34
12.89	32	7.66	57 15	13.62	17	33.07	59 03	15.23	59	99.72	8 39	15.57	1	29.12	3 19	13.53	21	90.56	19 32
15.05	34	8.20	54 04	14.26	17	33.18	58 28	14.26	10 2	0.52	1 37	14.48	3	29.61	3 37	14.82?	24	91.23	13 11
14.10	36	8.58	56 53	15.05	20	33.87	52 35	15.11	5	1.11	6 35	14.93	5	30.23	2 13	15.57	24	91.41	18 26
12.97	38	9.27	56 09	15.57	21	34.01	52 20	14.76	5	1.24	5 21	13.18	11	31.56	8 51	14.93?	25	91.61	12 00
14.82	39	9.35	51 27	11.45	21	34.06	51 43	12.57	8	1.89	8 32	15.57	12	31.92	0 30	12.77	27	92.09	10 02
13.86	39	9.53	59 31	14.93	29	36.05	52 31	14.53	11	2.69	3 01	12.00	13	32.21	4 12	15.38	27	92.12	19 15
14.82	43	10.43	54 35	14.93	30	36.31	59 40	12.57	11	2.72	2 07	14.70	17	32.97	0 20	15.29	29	92.43	19 54
14.00	44	10.70	51 23	13.06	33	37.07	55 21	14.10	12	2.93	9 23	12.77	19	33.61	6 56	13.53	31	92.92	16 55
13.06	48	11.47	54 46	14.21	36	37.72	54 17	14.93	18	4.32	1 51	14.53	20	33.75	0 28	15.57	32	93.26	13 03
14.93	50	12.00	54 26	14.76	37	37.87	54 50	15.23	20	4.94	0 29	14.82	20	33.89	9 57	15.57	37	94.39	15 50
14.82	51	12.28	59 39	12.00	37	37.99	52 09	10.74	32	7.67	0 56	15.57	22	34.28	0 14	15.57	42	95.78	16 55
15.38	51	12.40	52 14	15.05	38	38.19	58 19	13.96:	34	8.11	3 29	14.82	24	34.79	7 18	14.93?	43	95.90	14 33
12.57	54	13.03	58 56	15.38	38	38.23	50 47	12.57	38	9.24	0 40	14.00	30	36.10	6 09	15.57	48	97.01	14 26
13.76	56	13.42	50 56	14.64	38	38.28	59 06	13.96	39	9.32	8 51	14.10	30	36.17	8 53	10.98	50	97.66	10 13
9.75*	11 0	14.55	50 34	14.64	40	38.62	58 12	14.82	43	10.36	5 39	10.26	31	36.44	4 12	14.93	52	97.98	14 49
15.57	3	15.18	54 29	12.38	40	38.66	52 40	14.48	43	10.48	2 31	13.27	31	36.48	2 10	15.23	52	98.11	14 34
13.62	8	16.40	54 43	15.38	42	39.02	58 47	14.37	44	10.69	8 02	11.63	32	36.59	0 34	13.96	56	98.98	17 00
11.45	11	17.04	50 56	15.38	42	39.12	52 31	15.23	46	11.00	3 13	15.57	32	36.65	4 24	13.96	10 2	0.38	16 05
14.93	11	17.21	55 06	13.31	45	39.92	54 47	14.48	46	11.12	8 58	15.38	32	36.66	4 39	15.05	11	2.61	14 49
15.57	19	19.00	51 29	13.72	45	39.93	55 17	15.11	49	11.77	0 48	14.82	33	36.98	2 40	15.11	11	2.67	10 08
15.57	26	20.67	59 02	15.57	48	40.51	50 34	11.81	51	12.34	6 35	13.27	33	37.01	0 32	15.57	13	3.23	12 44
13.62	28	21.22	51 53	11.63	54	41.94	59 18	13.72	52	12.45	6 39	14.21	34	37.14	5 31	15.23	14	3.39	15 04
15.38	32	22.13	59 44	13.86	8 56	84.59	2 55	8.82*	53	12.88	1 30	15.23	36	37.57	6 55	15.23	17	4.18	19 59
14.82?	34	22.76	53 59	14.76	56	84.59	3 12	15.11	54	12.94	7 42	15.57	37	37.81	4 47	14.76	18	4.41	19 18
15.57	35	22.91	58 03	15.57	57	84.88	3 43	15.38	11 0	14.44	3 12	10.39	38	38.04	2 15	15.23	18	4.44	19 46
14.64	37	23.38	59 20	14.76	59	85.19	1 55	13.31	4	15.48	4 59	15.57	39	38.38	4 32	14.93?	20	4.77	10 05
15.57	38	23.65	57 36	14.64	9 1	85.85	4 28	15.57	8	16.46	8 31	13.27	41	38.79	3 10	14.10	21	5.11	10 03
14.64	38	23.69	53 53	15.23	3	86.26	8 23	15.57	9	16.59	8 18	15.57	41	38.96	6 31	12.89	25	5.93	12 06
14.76	38	23.69	57 59	13.40	4	86.47	6 36	13.96	15	18.08	7 18	14.64	46	40.07	1 27	15.23	29	7.05	11 49
14.64	38	23.73	55 55	13.86	4	86.60	4 51	14.00	17	18.54	1 28	14.48	46	40.09	7 29	13.76	37	8.84	16 47
12.00	39	23.97	58 40	15.57	7	87.32	1 11	15.23	18	18.73	2 19	14.10	48	40.43	4 10	13.31	38	9.05	17 16

25 prec. + 68 sec. — 1′ 46″.

501—540			
Int. magn.	α	x	y+o′
	m s	′	′ ″
13.72	10 40	9.66	15 21
13.72	40	9.68	11 26
12.57	42	10.22	10 29
15.57	42	10.23	11 51
12.57	46	11.02	11 43
12.38	46	11.09	11 59
15.57	47	11.26	11 38
15.23?	50	12.16	11 47
15.57	52	12.48	15 50
15.57	53	12.76	15 35
12.38	53	12.89	16 07
14.21	55	13.31	18 21
12.69	56	13.58	19 35
14.48	11 0	14.56	13 14
15.57	4	15.34	15 33
15.38	6	15.90	19 34
15.57	8	16.51	18 35
14.48	16	18.43	19 10
14.26	20	19.42	15 43
15.57	24	20.15	10 26
14.76	27	20.92	10 33
14.76	29	21.37	10 57
14.48	29	21.58	11 52
15.57	31	21.84	16 26
15.38	32	22.21	15 57
14.76	34	22.62	15 42
10.65	34	22.63	16 00
14.76	36	23.15	10 34
14.64	40	24.03	13 43
14.00	41	24.38	14 02
12.65	42	24.57	12 02
13.18	42	24.60	14 13
14.10	46	25.58	11 21
14.53	46	25.60	14 01
14.48	50	26.46	19 22
11.63	50	26.63	14 01
14.48	58	28.51	10 54
10.74	12 1	29.08	11 17
15.23	3	29.68	19 44
11.27	7	30.58	12 52

541—580			
Int. magn.	α	x	y+o′
	m s	′	′ ″
14.70	12 9	31.03	10 27
15.57	12	31.82	15 59
14.37	18	33.21	12 00
15.57	19	33.50	16 33
12.50	24	34.69	16 32
14.48	35	37.30	18 17
15.11	36	37.67	17 09
14.10	41	38.77	16 43
14.76	41	38.93	13 41
7.5 1)	45	39.81	17 29
14.82	50	40.91	14 27
14.00	51	41.21	18 13
14.37	51	41.31	10 56
14.37	55	42.27	17 27
14.64	58	42.91	13 35
14.93	8 50	83.14	21 58
15.57	53	83.89	27 44
15.57	54	84.13	25 26
15.57	54	84.14	24 53
15.57	55	84.45	22 34
15.05	57	84.81	21 57
12.89	9 0	85.65	24 21
12.85	1	85.69	25 45
15.05	3	86.32	23 18
13.72	9	87.65	26 42
12.19	10	87.98	22 37
15.57	12	88.35	22 32
15.57	15	89.13	23 02
15.57	17	89.70	21 42
15.11	19	90.04	20 14
14.76	19	90.14	24 26
15.38	30	92.84	23 18
14.00	39	94.91	24 23
9.67	40	95.29	24 14
15.57	45	96.30	24 38
15.38	46	96.57	24 53
13.27	47	96.90	24 04
15.57	49	97.36	27 02
14.10	52	98.12	29 51
15.38	55	98.76	29 30

581—620			
Int. magn.	α	x	y+o′
	m s	′	′ ″
15.57	9 55	98.82	27 19
13.40	55	98.89	20 22
13.53	57	99.39	24 22
14.00	10 0	0.00	24 51
13.86	0	0.03	22 12
15.57	0	0.10	23 12
15.57	2	0.38	25 27
9.26	5	1.29	25 32
15.05	7	1.63	24 11
10.21	8	1.88	24 25
15.57	15	3.64	24 07
13.40	15	3.71	26 37
15.38	17	4.12	20 00
13.49	18	4.45	29 21
14.82	22	5.40	24 30
14.64	26	6.34	25 53
13.81	28	6.80	20 08
14.64	31	7.47	22 18
14.10	35	8.36	23 17
15.57	35	8.47	29 06
15.57	43	10.46	25 22
15.57	44	10.62	24 35
14.64	46	11.01	24 00
14.64	46	11.15	28 47
10.59	48	11.45	26 19
14.53	53	12.78	28 17
13.40	54	12.94	23 44
15.57	55	13.22	27 23
15.11	58	14.00	28 30
14.82	59	14.24	29 42
13.10	11 1	14.77	25 41
15.57	2	15.02	21 54
13.62	4	15.38	28 47
15.38	7	16.04	22 07
13.62	9	16.74	24 01
15.57	10	16.89	20 33
14.37	12	17.41	22 53
14.76	16	18.44	28 13
13.53	18	18.84	27 43
13.96	19	19.06	27 02

621—660			
Int. magn.	α	x	y+o′
	m s	′	′ ″
13.18	11 26	20.81	21 24
14.64	27	21.01	21 15
13.62	29	21.52	29 50
15.57	31	21.82	20 29
15.23	34	22.71	28 12
14.82	35	22.80	23 38
14.82	36	23.01	20 39
14.10	37	23.37	23 17
15.05	38	23.71	27 08
13.96	39	23.89	28 00
14.26	46	25.47	24 17
15.57	47	25.87	21 07
13.53	52	27.06	20 04
14.76	53	27.24	20 29
15.57	56	27.96	20 14
13.86	12 1	29.13	21 42
15.23	3	29.60	22 28
14.37	7	30.63	24 41
13.18	8	30.90	27 13
15.11	9	31.18	25 51
14.10	10	31.29	26 53
13.72	11	31.49	29 12
15.57	13	31.95	22 11
15.57	17	33.06	22 14
11.63	20	33.81	29 58
13.96	21	33.95	21 45
13.53	24	34.74	27 18
14.21	24	34.74	28 42
15.05	29	35.98	24 03
10.91	30	36.07	22 10
8.47	31	36.48	22 54
13.49	32	36.73	25 36
12.57	40	38.48	20 22
15.23	41	38.77	28 40
15.57	41	38.81	27 40
14.93	44	39.62	26 08
13.62	46	39.92	27 29
12.69	46	39.99	29 17
15.23	46	40.10	27 03
13.31	49	40.65	29 55

661—666			
Int. magn.	α	x	y+o′
	m s	′	′ ″
15.11	12 52	41.37	23 53
15.57	52	41.44	26 51
15.57	53	41.70	27 33
14.93	53	41.72	21 43
15.23	53	41.74	25 57
14.26	57	42.65	22 00

25 prec. + 68 sec. — 1′ 46″.

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1) Magnitude very uncertain; rests on excessive extrapolation. Visual magnitude according to A.G.C.-zones 8.2.

Area 86. Centre for 1900: $18^{h}\,11^{m} + 15^{\circ}\,0'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$	Int. magn.	α	x	$y+60'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.88	10 23	91.11	41 27	14.22	10 55	98.68	49 47	15.88	11 41	9.93	46 09	14.35	12 16	18.33	45 26	13.83	12 56	28.00	45 58
15.69	23	91.14	44 00	14.91	56	99.09	45 17	14.13	42	10.16	45 24	15.20	16	18.43	46 46	15.15	56	28.06	46 17
15.39	25	91.61	43 17	15.88	59	99.84	49 58	14.91	44	10.56	40 07	11.28	16	18.43	45 00	15.29	57	28.18	42 33
15.88	27	91.97	40 25	15.88	11 0	0.11	45 17	14.96	44	10.69	47 58	15.88	17	18.60	43 32	15.88	58	28.65	46 25
15.88	28	92.20	44 02	15.29	1	0.13	46 17	15.05	45	10.89	49 39	15.29	18	18.73	41 18	15.29	59	28.75	41 57
14.96	28	92.28	41 46	15.88	1	0.21	40 20	13.38 :	46	11.01	47 30	15.88	18	18.77	47 54	15.88	59	28.88	44 31
15.88	28	92.38	44 17	15.54	3	0.68	40 00	15.88	46	11.10	43 19	14.81	18	18.79	40 18	14.58	13 0	28.99	43 34
15.15	29	92.40	40 27	15.69	4	0.90	44 29	15.88	46	11.17	49 49	14.44	20	19.40	40 17	14.13	3	29.77	40 18
15.88	29	92.48	41 56	15.88	5	1.25	45 50	14.96	47	11.28	40 22	14.81	21	19.60	41 58	15.39	3	29.78	46 00
15.54	29	92.50	44 12	15.88	6	1.40	41 38	15.54	47	11.36	40 15	15.88	22	19.70	45 59	15.39	4	29.95	48 48
14.53	29	92.54	49 52	15.54	6	1.52	46 30	15.54	47	11.38	44 07	15.88	23	20.01	40 42	15.88	4	30.00	42 01
15.88	29	92.61	44 23	14.91	7	1.64	45 44	15.15	47	11.38	43 07	14.44	23	20.01	40 11	14.26	4	30.09	44 03
14.58 :	30	92.68	42 51	15.15	8	1.88	46 01	15.20	48	11.50	45 45	11.20	23	20.10	42 44	15.88	5	30.26	44 49
15.88	31	93.00	42 54	14.58	10	2.45	40 55	14.67	49	11.94	46 49	15.88	24	20.22	44 12	15.88	6	30.45	43 48
14.49	31	93.01	41 14	15.88	10	2.48	48 48	13.50	50	12.02	49 21	14.04	24	20.36	43 56	15.88	6	30.58	43 30
15.88	31	93.08	40 31	12.50	10	2.54	41 18	15.88	50	12.04	40 18	15.05	25	20.51	48 37	13.70	7	30.59	49 21
13.38	34	93.69	41 01	12.50	12	2.94	45 24	13.38	50	12.15	46 12	13.91	27	20.92	44 17	15.54	7	30.69	47 16
14.04	35	94.02	41 16	15.88	14	3.38	42 54	11.37	52	12.66	43 14	15.88	27	20.98	41 59	13.83	7	30.70	47 26
12.70	36	94.10	40 04	15.69	15	3.52	41 18	14.49	53	12.90	49 40	14.22	27	21.06	43 07	14.67	8	30.96	49 47
15.88	36	94.23	44 42	14.35	15	3.71	46 11	11.93	54	13.09	49 22	15.88	27	21.07	43 49	13.50	8	30.98	40 28
15.54	39	94.81	43 45	14.58	16	3.76	44 29	15.15	55	13.41	43 44	14.26	28	21.16	49 08	15.88	10 24	91.21	55 07
14.13	39	94.81	44 18	15.88	16	3.81	47 12	14.67	56	13.46	40 34	15.88	29	21.45	40 31	14.91	24	91.33	53 33
15.88	39	94.94	42 46	12.70	16	3.95	40 34	15.29	56	13.55	43 08	11.18	29	21.52	45 45	14.49	24	91.38	58 22
14.26	39	95.00	44 00	15.88	16	3.97	41 43	11.74	58	13.97	49 03	14.04	30	21.85	49 10	15.10	25	91.45	59 47
15.05	39	95.02	46 22	15.20	17	4.04	42 58	15.29	12 0	14.54	47 12	14.58	31	22.06	47 01	15.39	25	91.52	53 25
15.69	40	95.17	42 37	13.10	18	4.34	40 57	15.54	1	14.71	43 09	15.88	32	22.23	49 08	15.88	27	91.95	55 08
15.88	40	95.19	42 59	15.54	19	4.57	49 56	14.35	2	15.06	40 27	15.05	32	22.32	43 03	13.10	27	92.10	55 04
15.88	41	95.49	43 12	11.74	21	5.00	43 03	15.54	2	15.11	41 34	15.20	33	22.39	40 37	14.67	28	92.16	53 28
13.42	42	95.64	47 54	15.88	21	5.07	49 38	15.54	3	15.25	46 47	15.88	33	22.47	40 08	14.26	28	92.18	58 25
15.39	42	95.75	44 18	15.20	21	5.17	46 21	15.88	4	15.37	46 58	15.88	34	22.61	48 21	14.67	28	92.21	51 19
15.88	43	95.82	44 17	15.88	22	5.29	43 14	15.54	4	15.41	41 31	15.54	35	23.00	45 04	15.69	28	92.23	55 36
14.72	43	95.83	45 22	15.88	22	5.35	45 58	15.69	4	15.44	41 59	11.74	36	23.14	47 32	15.88	30	92.69	58 44
12.90	44	96.02	49 26	15.44	22	5.38	48 29	15.88	5	15.64	40 58	15.20	37	23.46	44 05	15.05	31	93.03	53 30
14.35	44	96.07	43 23	15.88	23	5.47	48 26	15.88	6	15.93	47 33	15.69	37	23.49	47 35	14.96	31	93.06	52 24
15.88	44	96.09	46 01	15.88	23	5.64	44 27	15.88	6	15.99	47 23	15.88	37	23.55	41 41	15.69	31	93.09	55 23
15.88	45	96.30	42 51	15.44	25	5.95	43 44	12.31	8	16.43	45 09	15.88	40	24.24	46 05	15.54	33	93.40	55 33
15.15	46	96.49	42 58	14.26	25	5.97	49 16	14.67	8	16.45	40 29	15.88	41	24.48	41 56	14.67	33	93.54	51 06
10.35	46	96.57	47 24	12.70	26	6.17	42 29	12.50	8	16.56	47 11	14.35	43	24.86	44 36	14.72	34	93.65	51 29
15.44	47	96.95	42 29	13.91	26	6.28	42 54	15.88	9	16.70	47 38	15.20	44	25.03	45 38	13.14	34	93.76	50 10
15.54	49	97.34	47 48	15.54	27	6.53	46 11	13.79	10	16.83	41 09	15.29	45	25.36	46 00	15.88	35	93.93	54 25
15.54	49	97.42	41 56	12.12	29	6.97	40 21	14.26	10	16.87	47 17	15.88	45	25.41	48 25	13.10	35	93.94	50 53
15.88	50	97.48	41 53	14.58	30	7.16	43 56	15.88	10	16.97	41 06	15.44	47	25.79	40 34	15.05	35	93.99	57 05
12.31	50	97.69	49 13	15.69	31	7.50	46 52	15.88	11	17.06	45 47	13.83	48	26.05	43 06	14.96	36	94.11	53 38
13.30	52	97.99	44 25	13.50	32	7.73	42 23	15.88	12	17.29	40 46	15.88	49	26.26	46 15	14.44	36	94.23	52 02
13.58	52	98.05	41 20	15.88	32	7.74	48 28	15.88	12	17.39	48 19	14.00	50	26.70	46 11	15.88	36	94.27	55 05
15.88	52	98.06	40 49	14.91	33	8.01	43 22	15.69	13	17.55	40 54	14.49	51	26.86	43 26	15.88	38	94.60	58 39
14.67	53	98.40	40 13	14.96	36	8.60	40 45	13.42	14	17.98	40 51	13.10	52	27.19	47 11	15.54	40	95.07	51 45
15.20	54	98.46	44 19	15.88	38	9.30	49 35	15.88	15	18.03	46 08	15.20	53	27.27	40 23	15.88	40	95.28	58 41
14.35	54	98.51	48 00	15.88	39	9.51	46 38	15.05	15	18.04	48 40	15.20	54	27.50	44 37	15.69	41	95.41	57 32
12.50	54	98.57	40 24	13.70	40	9.56	43 40	13.91	15	18.21	45 00	15.20	54	27.67	43 27	15.69	42	95.75	50 44

25 prec. + 68 sec. + 0′ 25″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′ / y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.88	10 43	95.88	53 48	15.88	11 27	6.46	55 04	13.18	12 13	17.57	55 33	15.05	12 57	28.34	53 43	13.58	10 52	98.14	5 34
14.49	46	96.62	56 41	15.05	28	6.80	52 39	15.88	15	18.10	52 00	15.88	58	28.50	57 43	15.88	53	98.22	4 40
15.39	46	96.65	58 04	13.70	29	7.00	54 44	15.88	19	19.11	52 21	15.88	58	28.57	53 08	15.20	53	98.26	3 36
13.83	48	97.02	53 49	15.88	30	7.32	51 45	14.22	19	19.13	58 39	12.12	59	28.85	52 48	14.96	53	98.28	5 14
13.30	48	97.04	54 09	13.91	30	7.33	56 26	13.62	20	19.45	52 30	13.30	13 0	28.99	59 30	11.16	54	98.63	9 26
14.91	49	97.40	58 55	15.29	31	7.42	58 25	14.67	21	19.54	54 02	14.00	0	29.10	57 35	15.69	55	98.73	9 48
15.88	49	97.42	51 55	15.69	31	7.46	59 12	15.05	23	20.04	57 35	13.10	1	29.21	56 01	15.88	55	98.81	3 04
15.88	50	97.70	51 25	15.29	34	8.11	54 15	15.39	23	20.15	54 46	14.81	1	29.28	55 36	15.88	56	98.99	2 55
15.29	51	97.73	57 26	15.88	40	9.67	57 05	12.20	23	20.15	50 33	15.20	2	29.38	57 25	15.15	57	99.31	3 16
15.88	51	97.74	50 56	15.88	42	10.04	56 35	15.88	24	20.17	55 04	14.72	2	29.41	56 10	15.15	59	99.68	0 33
12.98	54	98.52	59 32	15.69	42	10.13	53 01	15.29	25	20.42	50 08	15.44	3	29.60	55 04	12.70	59	99.86	0 53
15.88	54	98.59	56 45	14.49	42	10.25	57 00	15.88	26	20.65	58 59	15.88	3	29.67	53 32	15.49	11 0	99.98	0 14
15.44	55	98.69	50 25	12.90	43	10.29	54 53	10.24	26	20.65	57 01	15.05	3	29.72	51 55	12.90	0	0.00	8 50
15.88	55	98.86	58 42	15.05	43	10.33	58 55	14.22	26	20.83	54 33	15.54	3	29.79	53 50	13.38	0	0.06	0 35
14.67	56	99.08	55 41	15.88	44	10.67	53 36	13.91	26	20.84	57 12	12.12	5	30.09	52 29	15.88	1	0.30	7 33
14.49	56	99.11	53 01	15.05	46	11.05	52 38	14.26	28	21.17	51 45	15.88	7	30.60	57 43	14.91	1	0.34	8 47
15.88	57	99.26	56 34	15.69	47	11.26	50 05	15.88	31	21.95	57 56	15.54	10 23	91.13	2 44	15.00	2	0.45	0 16
11.93	58	99.59	58 16	15.88	48	11.65	59 36	14.67	33	22.49	56 15	14.72	24	91.20	6 13	14.96	2	0.47	9 27
13.70	59	99.70	50 19	11.74	49	11.87	59 21	14.13	33	22.54	58 55	12.50	24	91.26	3 19	15.88	3	0.68	5 13
13.91	11 0	99.95	54 02	15.29	49	11.88	54 31	12.70	34	22.66	59 23	15.88	25	91.57	9 21	15.88	3	0.71	0 14
14.91	1	0.21	50 39	15.69	51	12.24	53 47	13.70	36	23.10	51 03	15.20	27	91.98	3 02	13.22	4	0.86	0 17
15.69	2	0.38	59 45	11.74	52	12.54	52 25	15.88	37	23.32	59 38	15.15	27	92.02	5 45	14.49	4	0.94	9 13
12.90	2	0.39	50 21	12.50	52	12.59	51 42	15.69	37	23.52	50 12	12.12	27	92.06	9 07	14.96	5	1.11	9 04
14.72	2	0.41	57 30	15.69	53	12.90	52 35	15.20	38	23.63	50 48	14.67	29	92.44	6 20	15.05	5	1.20	6 53
15.88	2	0.58	57 13	12.31	53	12.91	58 42	14.22	38	23.80	53 04	15.88	29	92.59	8 23	15.88	5	1.27	4 50
15.88	2	0.59	54 47	15.88	54	12.97	54 12	15.88	41	24.35	51 25	13.30	31	92.92	3 35	15.88	5	1.29	9 22
14.86	3	0.63	50 10	14.91	54	12.99	53 48	14.58	42	24.52	53 56	15.88	32	93.17	7 14	15.15	6	1.52	9 56
15.54	3	0.67	57 47	15.44	55	13.25	56 49	15.69	42	24.70	55 33	15.54	33	93.51	2 53	14.96	6	1.54	5 19
12.50	3	0.67	52 10	14.13	55	13.30	56 07	15.88	43	24.82	51 12	15.05	34	93.60	3 00	13.10	9	2.16	0 44
14.35	4	0.87	52 01	15.39	55	13.39	51 03	15.88	44	25.02	55 25	15.88	34	93.72	7 13	15.88	10	2.37	6 13
15.88	4	0.90	58 43	13.79	56	13.56	55 38	15.88	44	25.03	50 54	14.58	35	93.86	1 22	15.88	11	2.62	9 24
15.69	4	0.91	51 10	15.69	58	14.08	53 34	11.93	44	25.23	59 02	15.69	35	93.89	3 29	12.90	12	2.97	1 25
15.88	6	1.45	57 14	15.88	12 1	14.74	53 22	14.72	45	25.45	55 46	15.69	35	94.06	0 21	15.88	13	3.07	3 12
14.49	6	1.51	59 05	14.04	2	14.86	53 37	15.54	46	25.51	57 56	15.44	36	94.20	3 03	13.30	13	3.09	3 38
15.88	7	1.64	56 04	14.96	2	14.97	55 31	15.15	46	25.59	54 42	15.39	36	94.24	3 58	12.50	14	3.31	3 17
14.58	10	2.34	56 53	15.54	2	15.00	59 40	15.69	47	25.75	50 30	15.39	37	94.55	1 00	15.29	14	3.38	5 00
15.88	11	2.56	52 59	14.04	4	15.55	55 46	15.05	47	25.80	58 39	15.69	38	94.59	6 33	13.62	16	3.83	3 05
15.69	12	3.01	51 06	14.35	5	15.76	55 40	15.88	48	25.97	53 02	14.72	40	95.12	3 10	14.72	16	3.89	9 46
15.20	14	3.42	57 50	15.10	7	16.19	59 36	14.22	50	26.46	55 59	15.88	41	95.43	7 20	13.50	17	4.00	7 03
15.88	15	3.55	56 35	15.88	8	16.35	56 17	14.67	50	26.59	53 14	13.58	42	95.62	4 59	14.35	17	4.11	0 44
13.22	15	3.70	59 59	11.27	8	16.43	54 04	14.81	50	26.65	52 35	14.04	42	95.63	6 43	15.88	18	4.29	0 14
15.69	15	3.73	58 35	14.96	9	16.64	57 46	15.88	51	26.86	53 12	14.35	43	96.01	8 21	12.12	18	4.40	9 07
13.30	19	4.70	56 35	13.50	9	16.75	58 10	15.05	52	27.02	56 15	14.40	44	96.04	9 58	14.91	21	4.97	3 35
10.66*	20	4.71	54 33	13.62	9	16.78	53 34	15.88	53	27.29	53 10	14.67	44	96.09	6 33	12.50	21	5.18	5 10
15.88	21	5.07	54 23	15.29	10	17.02	57 01	14.40	53	27.37	50 06	15.88	44	96.11	7 04	15.88	27	6.45	6 19
15.88	22	5.34	54 00	15.88	10	17.03	50 38	14.81	55	27.76	55 36	11.37	45	96.38	0 09	14.35	28	6.75	6 45
13.79	23	5.58	56 58	15.88	11	17.24	50 55	14.26	55	27.87	53 16	15.54	46	96.68	8 27	15.69	28	6.87	5 35
15.44	23	5.67	56 27	14.91	12	17.29	58 15	15.05	56	27.97	50 37	15.88	49	97.26	8 39	15.88	29	6.98	4 13
15.05	26	6.27	55 09	14.49	12	17.41	55 54	14.91	57	28.19	51 05	10.70*	50	97.66	4 33	14.72	30	7.19	5 31
14.72	26	6.37	58 37	14.04	12	17.43	55 31	15.88	57	28.30	53 16	15.88	52	97.95	7 09	14.81	30	7.27	3 04

25 prec. + 68 sec. + 0′ 25″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.49	11 30	7.30	8 11	13.70	12 17	18.48	9 56	14.67	13 0	29.07	9 52	14.49	11 9	2.07	11 47	15.88	11 41	9.96	19 57
14.72	31	7.44	4 34	12.70	17	18.70	1 00	14.81	1	29.19	1 22	15.69	9	2.21	11 21	14.67	41	9.97	13 01
13.58	31	7.55	3 50	12.82	18	18.94	0 22	12.50	1	29.22	5 56	15.54	12	2.77	19 47	15.44	43	10.35	12 01
14.96	32	7.76	8 14	14.81	19	19.11	1 51	15.69	2	29.43	1 14	13.50	12	2.79	10 38	14.49	43	10.47	18 28
14.96	32	7.78	1 30	14.04	20	19.20	7 04	14.72	2	29.50	5 22	15.20	14	3.27	17 46	15.88	44	10.51	16 49
15.88	33	7.88	1 23	14.04	21	19.51	2 27	14.26	4	29.90	8 20	14.96	14	3.43	15 07	15.39	44	10.56	16 16
13.50	33	8.08	7 05	15.88	23	19.92	4 41	15.44	4	30.00	9 34	14.96	14	3.44	15 50	9.3[2]	44	10.57	12 37
14.13	34	8.18	6 55	15.44	24	20.21	2 17	15.54	7	30.76	9 16	15.88	15	3.53	19 06	15.15	44	10.58	14 06
14.13	34	8.28	2 06	15.44	24	20.29	2 09	15.05	8	30.81	0 20	14.58	15	3.54	15 29	15.88	45	10.90	18 23
15.88	36	8.62	8 12	15.88	27	21.04	4 06	14.67	8	30.82	9 14	15.29	15	3.67	19 09	15.69	45	10.93	15 17
13.62	38	9.08	4 30	15.20	27	21.05	2 40	15.88	8	30.96	6 56	12.50	16	3.74	18 17	15.69	45	10.95	10 37
13.22	41	9.79	4 35	14.31	28	21.17	0 14	10.85 :	10 23	91.11	13 51	14.81	16	3.88	19 51	14.91	46	11.08	15 43
15.69	41	9.80	3 37	15.88	28	21.36	2 42	10.51	23	91.14	17 30	15.05	16	3.95	19 21	14.13	46	11.18	10 14
13.10	45	10.77	3 47	15.88	30	21.79	2 13	14.72	24	91.21	11 41	12.90	17	4.05	14 19	11.40	47	11.43	16 09
9.69*	45	10.80	2 18	14.67	31	21.93	6 28	14.26	27	92.11	19 29	13.30	19	4.47	14 10	12.50	49	11.75	18 51
14.72	45	10.93	0 51	14.72	31	22.00	8 21	15.88	28	92.33	13 46	14.04	19	4.63	12 23	15.05	49	11.87	17 16
13.10	46	11.10	9 54	15.69	32	22.29	1 21	13.42	30	92.82	15 34	15.39	19	4.67	16 12	13.30	50	12.16	14 44
13.30	47	11.38	2 44	15.39	33	22.38	9 41	13.91	30	92.84	11 14	14.58	20	4.70	16 55	13.42	51	12.23	11 41
13.30	48	11.57	1 28	13.58	33	22.56	2 10	15.88	33	93.55	15 28	15.88	21	4.99	15 14	14.91	51	12.34	14 14
14.35	49	11.80	1 42	13.10	34	22.80	5 07	15.15	33	93.57	19 56	14.67	21	5.10	16 43	14.22	52	12.49	19 37
13.22	49	11.83	1 11	14.67	34	22.81	1 18	15.88	35	93.91	12 24	15.88	21	5.17	10 36	15.20	54	13.04	19 03
15.88	50	12.02	4 43	15.29	35	22.83	4 51	15.88	35	93.95	15 06	15.29	22	5.19	17 16	12.90	56	13.40	19 08
15.88	52	12.49	2 04	13.38	35	22.93	5 20	15.69?	36	94.20	18 36	15.29	22	5.19	13 50	15.88	56	13.63	12 26
15.29	52	12.49	3 43	12.82	36	23.06	0 17	14.67	37	94.48	18 38	15.69	22	5.20	12 46	15.88	59	14.22	14 05
14.35	53	12.88	1 03	15.88	39	23.79	5 04	15.20	40	95.08	15 37	15.54	22	5.37	16 55	14.67	59	14.22	16 45
15.44	55	13.18	3 37	15.05	41	24.35	5 13	14.86	40	95.19	10 08	8.8[1]	23	5.48	18 46	15.54	59	14.31	13 23
14.13	55	13.26	8 05	14.58	42	24.50	9 44	15.60?	40	95.30	10 04	15.88	23	5.50	11 54	13.79	59	14.31	15 25
15.34	56	13.59	0 25	13.50	43	24.77	9 16	15.54	41	95.44	14 52	13.70	24	5.68	12 43	15.88	12 0	14.52	10 46
15.29	57	13.78	8 02	14.72	43	24.86	6 44	15.69	41	95.44	12 24	15.88	25	5.94	11 21	14.13	2	14.95	16 03
12.70	58	14.01	0 58	15.44	44	25.15	6 29	15.29	42	95.60	18 07	12.70	25	5.97	17 49	14.26	3	15.08	15 26
14.58	59	14.16	8 55	15.88	44	25.15	2 36	15.15	43	95.79	17 46	14.58	27	6.46	17 46	15.88	3	15.28	19 45
14.96	12 0	14.45	7 45	15.88	44	25.15	2 10	15.88	43	95.89	13 44	15.69	27	6.56	10 12	14.44	4	15.41	12 32
15.88	2	14.93	2 46	12.12	45	25.28	5 08	14.91	44	96.19	16 35	15.88	28	6.88	14 41	12.12	4	15.50	10 59
15.88	2	15.07	9 59	15.15	45	25.45	1 17	15.88	45	96.33	12 29	12.31	30	7.14	13 22	15.88	5	15.77	13 46
15.20	3	15.12	3 31	15.88	46	25.58	3 03	15.69	45	96.39	11 24	15.20	30	7.21	18 33	15.88	6	15.90	19 47
15.88	3	15.22	1 13	15.88	46	25.66	1 34	15.20	45	96.47	16 34	13.79	30	7.22	17 38	11.74	6	15.97	16 10
13.54	3	15.26	0 17	13.50	46	25.69	5 51	15.54	46	96.56	10 34	15.88	31	7.47	13 46	15.88	6	16.02	19 06
14.13	4	15.35	1 37	15.88	51	26.72	9 39	10.48*	49	97.30	12 42	15.88	31	7.55	12 58	15.69	7	16.12	11 33
14.91	5	15.78	6 55	15.88	52	27.11	8 19	15.88	49	97.32	17 26	15.20	32	7.73	13 21	15.69	7	16.12	15 09
15.88	7	16.11	0 06	15.88	53	27.24	1 07	15.88	50	97.68	16 16	15.69	34	8.23	18 44	14.81	8	16.31	13 23
15.88	9	16.56	4 11	15.05	53	27.34	9 03	14.44	52	98.19	19 21	15.29	34	8.26	15 25	15.05	10	16.76	13 06
15.29	10	16.90	4 33	15.20?	54	27.62	0 11	13.91	53	98.32	18 03	15.88	35	8.40	12 51	11.14	10	16.78	18 59
15.29	11	17.05	1 45	15.69	55	27.67	0 00	15.88	56	98.92	18 53	14.26	35	8.42	13 37	14.67	12	17.33	13 27
13.62	11	17.21	9 24	15.88	55	27.84	9 13	10.59	57	99.18	17 24	11.55	37	8.96	11 44	15.05	14	17.85	17 36
15.88	12	17.49	5 43	14.72	56	28.07	9 15	15.88	11 1	0.29	12 13	12.90	37	9.00	13 57	15.88	15	18.03	16 35
14.35	13	17.55	6 13	11.74	59	28.63	8 37	15.88	2	0.37	16 25	14.86	37	9.04	10 31	13.79	17	18.54	13 11
13.83	13	17.63	1 07	14.44	59	28.68	2 58	15.88	3	0.62	13 18	15.88	39	9.46	13 22	15.20	18	18.74	11 44
13.42	13	17.72	7 20	14.00	59	28.77	2 40	11.55	4	0.96	11 32	15.39	40	9.58	10 44	15.54	18	18.78	17 16
14.81	15	18.08	6 07	15.88	59	28.81	6 02	15.60	6	1.48	10 26	15.69	40	9.66	13 07	14.81	18	18.80	19 29
15.29	16	18.31	3 54	15.69	59	28.83	2 14	14.81	7	1.69	18 57	14.72	41	9.80	18 56	15.29	18	18.91	19 22

25 prec. + 68 sec. + 0′ 26″.

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[1] Magn. very uncertain by excessive extrapolation; visual magn. A.G.C. is 8.1.

[2] Magnitude uncertain, extrapolated.

751—770				771—790				791—810				811—823			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.15	12 18	18.92	15 36	15.29	12 33	22.35	18 32	15.44	12 44	25.15	14 56	15.69	12 55	27.82	12 59
12.50	19	19.12	19 20	15.88	34	22.62	12 13	15.88	45	25.23	18 29	15.88	57	28.23	17 27
15.88	20	19.22	12 30	15.69	34	22.69	16 26	13.02	45	25.42	19 34	15.05	13 0	29.01	15 55
15.88	20	19.23	14 41	15.88	35	22.82	11 48	15.44	46	25.61	11 47	15.88	2	29.36	18 00
15.69	20	19.42	18 36	15.88	35	22.83	19 16	14.67	47	25.90	11 56	15.05	5	30.09	17 09
13.38	21	19.64	19 59	15.39	36	23.07	17 56	13.83	49	26.19	15 47	15.54	5	30.12	12 06
15.88	22	19.83	13 13	15.15	36	23.09	17 15	12.70	49	26.25	19 58	15.44	5	30 21	15 16
15.88	22	19.89	12 28	15.88	36	23.13	15 45	15.88	49	26.32	19 03	15.05	6	30.27	11 33
14.81	23	19.91	18 53	15.54	38	23.60	12 49	15.39	50	26.49	13 03	14.67	6	30.43	18 18
15.39	23	20.11	19 05	15.88	39	23.84	19 14	15.88	50	26.54	17 37	15.69	6	30.44	19 26
14.22	24	20.14	10 01	15.88	39	23.89	14 43	15.69	51	26.67	18 46	15.88	7	30.56	17 01
13.83	25	20.44	18 11	14.58	41	24.33	12 37	14.91	51	26.77	14 43	15.05	7	30.57	11 45
15.44	27	20.98	16 42	15.88	41	24.47	11 25	15.54	52	27.05	11 02	15.69	7	30.62	15 23
15.15	27	21.07	14 36	15.69	42	24.58	19 23	15.88	53	27.21	17 26				
11.74	27	21.10	12 10	12.50	42	24.67	16 53	14.86	53	27.31	10 08				
15.69	28	21.24	14 36	13.50	43	24.75	12 48	13.83	54	27.39	19 13				
14.13	28	21.32	14 56	13.50	43	24.80	15 06	15.88	54	27.50	16 07				
15.88	29	21.51	16 23	13.18	44	24.99	12 34	14.13	55	27.63	11 26				
12.50	31	21.88	16 23	14.49	44	24.99	13 15	15.05	55	27.64	14 36				
15.39	31	21.94	12 55	15.88	44	25.13	13 22	12.12	55	27.81	17 04				

25 prec. + 68 sec. + 0′ 28″.

19^h Area 87. Centre for 1900: $19^h\ 11^m + 15° 0'$. + 14°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.56	9 54	84.06	41 37	12.84	10 6	87.00	48 20	15.56	10 29	92.43	46 41	16.41	10 50	97.47	42 50	13.96	11 3	0.83	47 21
15.71	55	84.25	44 35	16.41	6	87.01	43 48	15.56	29	92.51	49 02	14.10	50	97.52	48 40	16.22	5	1.27	48 36
12.31	57	84.66	43 53	15.97	6	87.05	40 49	15.92	30	92.67	48 52	15.66	50	97.63	45 01	15.56	5	1.29	47 32
16.07	57	84.66	47 37	16.41	9	87.63	48 46	16.41	31	93.06	48 09	16.22	51	97.83	40 39	13.65	6	1.39	44 14
15.71	57	84.71	43 09	10.63	13	88.56	40 52	16.41	32	93.22	45 39	16.41	52	98.17	47 08	15.66	7	1.61	44 52
12.66	57	84.75	47 34	15.71	13	88.75	43 04	16.41	33	93.44	49 27	16.41	53	98.38	46 34	16.41	8	1.91	44 12
15.46	58	84.94	49 13	16.41	14	88.84	41 59	15.41	33	93.51	44 22	16.41	54	98.61	46 34	15.21	8	1.95	42 34
13.74	58	85.08	45 35	9.14*	16	89.35	44 27	16.41	35	93.95	46 17	15.71	55	98.68	45 18	14.57	8	2.06	46 36
15.97	59	85.18	48 32	14.72	16	89.41	47 29	15.06	36	94.21	40 21	14.57	56	98.93	46 39	14.96	9	2.14	40 48
11.93	10 0	85.44	46 28	16.41	18	89.77	47 43	14.67	37	94.44	42 22	15.31	56	99.10	44 56	15.41	9	2.24	45 29
9.67	0	85.47	45 34	13.65	18	89.82	48 37	16.41	40	95.05	49 07	16.22	57	99.38	40 52	15.06	10	2.39	45 33
13.48	1	85.62	49 54	15.21	18	89.96	48 46	15.71	42	95.66	40 30	16.41	58	99.44	47 18	16.22	11	2.55	49 13
15.21	2	85.92	46 36	16.41	20	90.28	41 31	14.48	42	95.70	40 52	14.57	59	99.65	48 37	14.67	12	2.87	46 35
15.71	2	86.10	49 13	12.84	21	90.46	40 04	15.97	42	95.77	42 19	14.96	11 0	99.92	47 03	11.88	12	2.88	43 55
16.41	3	86.32	40 10	15.97	25	91.45	42 48	16.22	43	95.82	48 07	16.07	0	99.98	44 29	16.41	13	3.22	44 32
16.41	4	86.55	41 20	14.33	26	91.69	44 03	15.97	44	96.11	45 02	15.66	1	0.13	42 33	16.22	15	3.56	44 25
16.41	5	86.64	43 57	16.41	26	91.88	48 18	15.31	45	96.34	46 00	11.62	1	0.33	40 45	15.21	16	3.81	45 05
14.33	5	86.80	43 38	12.31	27	91.95	40 16	16.41	47	96.86	48 36	13.36	2	0.45	48 15	13.74	16	3.93	46 06
16.41	6	86.94	40 52	16.41	28	92.26	48 53	14.48	48	97.05	43 46	15.92	2	0.58	41 00	15.06	16	3.93	40 39
14.81	6	86.94	47 09	16.41	28	92.27	40 56	16.41	48	97.14	48 24	13.65	3	0.82	47 28	15.71	17	4.00	46 55

25 prec. + 68 sec. + 2′ 32″.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.67	11 17	4.21	41 02	14.96	11 50	12.18	49 44	15.06	12 22	19.89	48 18	12.84	10 17	89.73	52 52	15.71	10 48	97.07	59 54
16.22	18	4.37	41 47	15.97	52	12.46	44 48	15.71	23	19.98	48 26	16.41	19	90.09	57 04	14.91	48	97.16	53 03
16.41	18	4.44	41 08	15.97	52	12.52	42 56	15.97	23	20.06	44 24	16.41	19	90.13	52 19	14.19	49	97.25	51 27
15.66	18	4.46	44 09	12.84	52	12.56	42 00	16.41	23	20.08	41 16	16.41	19	90.19	55 17	16.22	49	97.34	55 44
16.07	18	4.46	43 00	16.02	53	12.76	49 56	16.41	26	20.84	44 49	12.66	19	90.20	53 19	15.81	50	97.59	57 32
15.92	19	4.54	42 53	14.33	54	13.13	40 09	16.41	27	21.12	47 38	16.41	21	90.62	56 23	16.07	51	97.71	59 18
12.84	19	4.60	42 17	15.92	55	13.25	45 21	15.92	28	21.19	47 55	16.41	21	90.65	55 44	15.16	51	97.91	53 05
15.97	20	4.81	48 12	14.48	55	13.31	48 14	16.22	28	21.27	46 20	16.07	21	90.68	54 45	15.81	52	98.01	52 22
14.96	21	5.18	45 42	15.16	56	13.42	43 40	15.06	31	22.05	40 08	15.56	21	90.68	52 18	14.52	52	98.15	59 34
13.96	22	5.22	49 00	15.92	57	13.88	47 58	15.81	31	22.06	45 42	11.72	22	90.81	52 11	16.41	55	98.68	53 42
13.03	23	5.58	47 15	15.56	59	14.19	40 26	13.78	32	22.16	48 29	16.41	22	90.92	56 22	12.31	55	98.72	52 55
15.92	23	5.59	47 03	16.22	59	14.37	46 46	16.07	32	22.36	45 39	15.66	23	91.08	58 26	16.41	56	98.92	58 42
12.84	24	5.92	44 24	15.92	12 0	14.54	45 21	16.41	33	22.45	45 45	16.41	24	91.37	54 24	15.56	56	98.95	58 10
12.31	25	6.04	46 03	16.07	0	14.57	42 50	14.72	33	22.50	48 47	14.43	25	91.45	57 43	15.66	57	99.38	55 33
16.41	25	6.07	45 00	16.41	1	14.73	47 08	15.16	33	22.51	43 32	16.07	26	91.84	57 27	14.57	58	99.40	50 47
13.44	25	6.11	46 45	15.56	2	14.91	44 23	16.22	34	22.72	41 35	16.41	27	91.99	56 26	13.19	58	99.52	59 32
15.06	25	6.13	48 16	16.41	2	15.00	45 04	15.81	35	22.88	44 04	15.66	27	92.00	54 40	15.97	59	99.80	52 34
16.41	27	6.53	48 30	15.81	2	15.01	45 40	16.41	35	22.99	44 25	12.66	28	92.22	59 16	16.07	59	99.82	51 44
16.41	28	6.69	43 24	14.67	3	15.15	46 55	16.41	36	23.22	46 36	16.41	29	92.56	52 25	16.41	11 0	0.09	53 52
14.67	28	6.76	45 15	14.38	4	15.43	49 42	16.41	37	23.37	41 18	14.96	29	92.61	54 31	14.10	2	0.42	52 59
12.31	30	7.28	46 45	16.41	5	15.83	42 28	14.72	37	23.56	45 38	15.46	30	92.64	55 45	14.10	2	0.58	59 22
14.81	30	7.34	41 38	15.71	6	15.98	41 27	11.06	38	23.61	44 15	16.41	30	92.87	53 17	15.66	3	0.81	59 13
14.91	31	7.40	46 10	14.72	6	16.00	43 57	15.71	39	23.92	40 10	15.21	31	92.99	58 35	16.41	3	0.83	54 36
16.41	32	7.80	45 09	16.41	6	16.02	47 18	15.56	39	23.97	40 25	16.41	31	92.99	57 23	16.41	16	3.91	57 46
15.06	33	7.93	47 28	16.41	7	16.28	47 54	16.41	9 54	84.05	55 02	14.81	31	93.06	54 48	15.21	17	4.10	51 44
15.66	34	8.29	44 04	15.31	8	16.40	49 12	16.41	54	84.09	51 20	16.07	32	93.22	53 15	16.07	19	4.68	59 43
15.41	34	8.30	44 50	16.41	8	16.42	48 17	13.65	54	84.11	57 01	13.36	32	93.32	53 41	16.41	20	4.73	59 31
15.46	35	8.39	42 55	16.41	9	16.62	45 39	14.24	55	84.28	52 09	15.92	32	93.34	56 44	16.41	20	4.84	55 04
16.07	36	8.73	43 54	14.57	9	16.77	40 16	14.57	55	84.38	55 05	16.22	33	93.55	54 13	16.22	21	5.17	56 30
14.19	37	8.83	41 08	16.41	10	16.93	47 51	15.16	56	84.45	58 08	15.56	33	93.55	50 59	12.31	22	5.40	58 16
16.41	38	9.22	43 32	16.07	10	16.98	40 12	13.03	57	84.72	51 09	14.91	33	93.56	55 35	16.41	25	6.05	54 03
15.31	40	9.60	41 36	16.22	11	17.07	44 18	16.41	57	84.72	53 24	15.46	34	93.83	53 43	13.23	25	6.05	53 43
14.48	40	9.66	43 01	14.48	11	17.15	47 00	13.36	58	85.01	57 46	16.07	35	93.87	55 11	15.46	26	6.22	57 33
12.66	40	9.72	40 10	15.92	13	17.60	46 59	15.71	58	85.04	58 07	16.41	35	93.97	54 54	16.22	27	6.51	56 10
16.07	41	9.92	42 56	16.41	13	17.63	43 04	16.22	10 2	86.10	57 06	15.92	36	94.09	58 57	16.41	27	6.64	57 33
16.41	41	9.98	42 39	16.07	14	17.82	49 31	16.41	4	86.40	51 36	16.22	37	94.41	51 32	12.84	27	6.64	58 18
10.98	42	10.24	41 58	14.48	14	17.89	49 02	15.06	6	86.95	55 30	16.07	38	94.64	56 34	16.07	32	7.62	59 53
13.96	45	10.78	43 54	14.81	14	17.92	43 25	14.48	6	87.07	52 45	16.41	38	94.75	51 55	16.41	33	7.91	55 48
15.21	45	10.96	43 37	15.31	14	17.97	46 31	12.48	7	87.14	58 39	15.56	40	95.24	56 21	15.81	33	8.01	52 54
15.16	46	11.10	43 23	16.41	15	18.20	44 23	15.16	7	87.25	55 20	8.3 1)	41	95.32	54 32	16.07	34	8.16	58 55
16.22	46	11.11	43 08	16.41	17	18.60	46 28	14.19	7	87.30	57 59	12.84	44	96.03	57 47	13.36	34	8.22	56 46
16.41	46	11.18	47 49	16.22	17	18.65	41 52	12.84	8	87.34	50 50	16.41	44	96.16	51 42	15.71	35	8.46	54 14
16.22	47	11.29	44 30	16.22	18	18.81	43 19	16.41	9	87.58	51 11	15.56	44	96.19	52 45	15.06	36	8.62	57 53
14.24	47	11.38	45 38	16.22	18	18.85	49 20	16.41	12	88.30	53 54	15.66	46	96.62	55 55	14.57	37	8.99	51 51
14.57	48	11.51	42 02	15.71	20	19.31	48 08	15.16	12	88.39	58 11	15.16	46	96.67	59 54	16.41	39	9.36	59 56
16.41	48	11.55	49 44	15.41	20	19.40	43 12	16.41	12	88.47	53 19	14.24	47	96.79	55 56	15.31	40	9.63	53 13
11.63	49	11.79	45 36	16.41	20	19.41	40 41	15.21	13	88.74	52 25	14.67	47	96.80	51 41	13.31	40	9.72	59 45
15.97	49	11.93	40 26	16.07	21	19.66	48 38	16.41	14	88.80	52 53	6.40 2)	47	96.83	54 34	16.41	41	9.89	58 01
11.91	49	11.95	47 03	13.03	21	19.66	45 36	15.97	16	89.38	58 27	15.21	47	96.83	57 51	15.66	42	10.08	59 22
16.07	50	12.03	42 04	15.81	22	19.81	42 30	11.98	17	89.57	55 10	16.41	47	96.93	59 02	16.41	43	10.41	59 02

25 prec. + 68 sec. + 2′ 34″.

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1) Visual magnitude from Harvard Annals **54** + 0·5.

2) Vis. magn. from Harv. Ann. **50**, reduced to photogr. magn. by Harv. Ann. **71**, I p. 7.

Area 87.

+ 14°, + 15°

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′ / y+0′	Int. magn	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.97	11 44	10.55	55 08	16.22	12 23	20.02	53 19	14.48	10 11	88.18	8 37	15.71	10 42	95.78	5 54	13.03	11 18	4.28	3 37
14.33	45	10.96	58 30	12.84	23	20.11	55 56	16.07	12	88.51	2 51	14.96	45	96.38	7 32	15.21	18	4.44	6 29
16.41	46	11.02	57 45	16.41	23	20.12	58 11	16.07	14	88.79	3 46	15.31	45	96.48	9 09	13.65	19	4.66	7 41
13.36	46	11.20	53 35	10.73	24	20.26	50 14	15.97	14	88.91	8 10	15.46	46	96.50	4 15	16.41	20	4.84	3 30
15.56	47	11.29	51 56	14.10	24	20.35	53 18	10.62	15	89.08	4 32	14.81	47	96.90	0 52	15.46	21	4.99	3 53
14.43	48	11.70	57 56	16.22	24	20.37	55 05	16.41	15	89.12	2 55	12.14	47	96.94	2 41	15.06	22	5.39	5 53
16.41	50	12.13	55 21	15.71	26	20.71	58 53	16.41	16	89.31	4 12	16.22	48	97.22	6 09	16.41	23	5.52	6 41
15.31	51	12.23	54 22	14.91	26	20.86	57 52	16.41	16	89.38	2 45	15.46	48	97.23	8 06	14.10	24	5.73	7 49
16.41	53	12.89	55 44	15.21	27	20.94	54 53	14.67	16	89.38	9 18	15.16	49	97.28	7 53	15.81	24	5.77	8 18
16.41	54	13.04	53 10	15.97	27	21.01	53 37	15.66	17	89.68	5 34	15.81	50	97.57	8 58	14.81	24	5.83	9 58
15.21	55	13.25	55 23	15.41	27	21.05	53 12	15.31	17	89.72	7 41	15.97	50	97.67	0 34	16.07	24	5.84	8 58
15.71	57	13.66	55 59	15.56	28	21.14	55 39	14.81	18	89.79	5 55	11.30	51	97.73	7 15	16.41	24	5.87	4 22
15.92	57	13.85	50 37	15.97	29	21.54	57 35	14.48	19	90.01	2 12	16.41	51	97.90	0 12	15.41	25	5.94	1 15
15.46	57	13.88	56 00	15.71	30	21.62	58 22	15.11	19	90.10	9 59	10.61	53	98.28	8 01	16.07	25	6.04	5 18
16.41	58	14.10	52 20	14.91	30	21.73	59 03	15.31	20	90.33	0 08	16.41	53	98.35	3 31	16.41	28	6.85	1 30
16.22	59	14.27	57 14	15.56	30	21.82	52 46	12.92	22	90.72	9 41	16.41	54	98.51	0 57	16.41	29	7.02	2 39
16.41	59	14.34	55 45	15.31	31	21.97	58 07	15.81	22	90.72	7 39	14.86	55	98.76	0 00	16.22	30	7.28	3 44
16.07	59	14.37	51 54	15.92	31	22.00	57 43	14.86	22	90.83	0 26	15.71	57	99.21	0 07	15.71	30	7.29	1 02
16.22	12 0	14.44	54 55	16.07	32	22.21	52 43	15.66	24	91.20	3 39	15.01	57	99.26	9 44	15.21	31	7.49	1 51
16.22	0	14.55	53 56	15.92	32	22.31	54 32	16.41	25	91.55	2 31	13.57	57	99.30	9 59	16.41	32	7.77	5 47
16.41	0	14.60	55 38	15.81	33	22.38	58 50	16.41	25	91.58	8 08	15.87	57	99.37	9 30	16.41	32	7.83	7 36
16.22	1	14.67	50 38	15.31	33	22.40	56 25	14.91	25	91.65	1 25	15.81	57	99.39	2 56	15.92	33	8.02	6 08
15.66	1	14.80	52 05	16.07	33	22.42	58 22	16.41	25	91.65	4 44	15.46	58	99.47	9 40	15.56	34	8.29	4 17
15.81	3	15.26	50 58	13.03	33	22.52	53 00	15.16	26	91.67	1 16	15.92	59	99.66	7 19	16.41	35	8.42	9 31
10.72*	3	15.28	57 13	15.71	34	22.77	52 59	15.06	26	91.71	0 39	15.97	59	99.76	8 24	15.81	35	8.53	6 44
15.71	3	15.28	56 23	15.56	36	23.09	57 38	14.57	26	91.76	1 57	15.97	11 0	99.89	0 54	16.41	36	8.77	3 30
16.07	3	15.28	55 50	16.41	36	23.19	57 12	12.84	26	91.82	8 41	15.97	0	99.94	0 43	16.41	37	8.88	2 58
16.22	4	15.47	51 50	15.71	37	23.32	51 58	13.03	27	91.92	1 57	15.46	0	0.04	6 00	13.74	37	8.98	0 24
15.16	5	15.63	58 27	15.46	38	23.72	54 20	16.41	27	92.15	4 35	16.41	0	0.06	9 08	15.76	38	9.14	0 18
15.71	5	15.74	55 06	15.71	39	23.91	55 54	14.43	28	92.27	8 46	16.41	1	0.28	3 11	14.96	38	9.14	3 12
16.07	6	15.87	52 07	15.76	9 54	84.08	9 28	16.41	28	92.39	5 28	15.06	1	0.28	6 30	15.21	38	9.27	2 30
15.92	7	16.18	59 15	15.71	55	84.38	1 34	16.41	29	92.49	0 02	15.87	1	0.34	0 30	16.41	39	9.36	9 44
16.41	8	16.32	54 35	14.96×	57	84.74	9 26	13.23	29	92.49	8 25	15.66	2	0.37	5 02	14.72	40	9.71	2 11
15.46	9	16.63	58 08	12.14	57	84.88	5 14	16.41	29	92.58	7 43	16.07	2	0.41	5 18	15.21	40	9.78	3 22
16.22	9	16.67	52 16	14.72	59	85.20	7 08	14.24	31	93.05	4 37	14.81	2	0.51	4 07	16.41	42	10.04	8 26
16.41	9	16.70	57 50	10.47	59	85.23	3 01	16.41	31	93.08	1 57	15.46	2	0.57	6 58	15.97	43	10.27	7 39
15.56	11	17.09	56 08	16.41	10 0	85.54	5 50	16.22	31	93.10	9 44	15.81	3	0.75	0 40	15.71	43	10.47	8 25
13.96	12	17.47	58 48	13.03	1	85.70	6 33	16.41	32	93.16	1 08	12.84	4	0.88	0 36	15.06	44	10.60	7 44
15.06	14	17.88	50 45	16.41	1	85.85	8 57	15.46	32	93.19	8 28	13.65	8	1.89	3 56	12.84	45	10.75	2 58
13.44	14	17.89	50 50	12.48	2	86.02	6 23	15.66	32	93.22	5 00	13.78	10	2.36	1 44	15.92	45	10.82	3 24
15.66	15	18.04	56 07	16.41	2	86.05	8 48	15.06	33	93.38	6 08	15.56	13	3.02	2 57	15.56	45	10.93	6 17
15.46	15	18.06	58 52	16.41	2	86.10	5 09	16.41	33	93.55	8 11	14.81	13	3.08	6 39	13.78	47	11.29	8 46
16.41	16	18.34	55 04	15.66	3	86.29	2 36	14.96	34	93.62	9 44	15.56	13	3.19	5 15	16.41	48	11.55	5 46
14.96	19	19.01	51 37	16.41	4	86.43	6 33	16.41	34	93.68	2 21	14.67	13	3.24	3 23	10.16	48	11.57	7 13
16.41	19	19.05	59 32	16.41	4	86.51	1 35	15.06	38	94.64	6 54	15.16	14	3.27	4 09	15.92	50	12.00	9 02
16.13	19	19.07	50 06	14.91	4	86.52	4 01	13.57	38	94.74	4 40	16.41	15	3.65	0 45	14.43	51	12.26	0 57
15.31	19	19.10	58 14	14.19	6	86.94	4 50	15.66	39	94.97	2 18	9.01*	15	3.66	2 50	15.51	51	12.29	9 32
16.41	21	19.50	53 49	15.16	8	87.49	3 15	15.81	41	95.52	6 24	13.23	16	3.98	3 31	14.81	52	12.48	4 30
15.71	21	19.68	56 52	16.41	10	87.84	7 15	15.16	42	95.69	9 38	15.31	17	4.09	2 29	15.71	53	12.82	8 39
16.41	22	19.75	53 03	16.41	11	88.11	0 55	12.31	42	95.78	0 06	16.02	17	4.15	9 39	14.57	54	13.07	3 19

25 prec. + 68 sec. + 2′ 34″.

601—650				651—700				701—750				751—800				801—850			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
16.07	11 54	13.13	3 45	15.41	12 29	21.48	7 19	15.56	10 18	89.95	11 20	15.31	10 53	98.28	18 48	15.41	11 22	5.27	15 33
12.84	54	13.14	6 36	15.41	30	21.73	1 52	15.21	18	89.99	16 43	16.41	54	98.47	12 45	16.22	23	5.49	15 01
15.71	55	13.26	1 28	15.71?	30	21.82	3 32	15.81	19	90.13	18 10	15.71	54	98.48	14 26	16.07	23	5.56	10 38
15.16	55	13.29	6 30	15.41	30	21.85	8 02	15.66	20	90.41	18 20	14.33	54	98.49	18 17	16.41	23	5.62	11 30
13.87	56	13.42	8 46	15.97	32	22.21	4 14	16.41	20	90.42	14 17	16.41	54	98.58	11 29	15.41?	25	6.03	13 01
16.41	56	13.44	0 12	16.41	32	22.30	6 50	15.41	21	90.57	16 14	16.41	54	98.66	16 40	14.24	25	6.03	16 53
16.22	56	13.55	8 35	15.56	32	22.32	0 04	14.81	21	90.57	15 40	16.41	56	98.95	16 07	15.92	26	6.29	17 26
16.41	57	13.81	5 22	16.22	33	22.49	6 18	16.41	21	90.61	17 31	16.22	56	99.02	19 37	15.46	26	6.35	11 08
14.96	58	14.05	6 05	16.07	33	22.56	0 42	16.41	21	90.63	13 36	14.81	56	99.05	14 01	15.71	26	6.39	11 28
16.22	12 1	14.70	4 51	16.13	33	22.56	0 11	16.41	21	90.69	14 05	15.21	56	99.13	15 24	16.22	27	6.52	11 51
16.41	2	14.96	0 47	13.87	34	22.70	9 10	14.43	22	90.93	16 04	16.41	57	99.36	18 26	14.48	29	6.99	17 35
12.84	4	15.56	3 54	14.91	34	22.71	7 11	14.57	24	91.29	16 45	15.56	58	99.60	13 28	16.41	29	7.00	12 16
15.71	5	15.72	9 08	15.71	35	22.93	7 16	10.99	24	91.33	10 22	13.44	11 0	99.89	13 26	16.22	29	7.05	12 05
15.31	5	15.79	3 56	15.46	35	22.98	2 28	15.21	24	91.41	18 00	12.84	0	0.01	19 26	13.23	31	7.44	16 36
15.71	6	15.85	6 13	13.23	36	23.11	6 12	16.07	26	91.92	11 38	14.24	0	0.03	16 38	16.41	32	7.63	12 10
15.46	6	16.05	2 38	16.41	36	23.22	3 38	14.19	27	91.96	12 39	16.41	1	0.20	17 44	15.92	33	7.96	19 54
15.31	6	16.05	3 08	16.41	37	23.42	1 10	16.41	28	92.17	16 10	12.14	1	0.25	13 40	13.03	33	7.96	18 20
15.66	7	16.06	6 58	13.87	37	23.42	3 23	13.96	28	92.37	13 04	16.22	2	0.46	10 12	15.46	33	8.00	14 59
16.41	8	16.41	1 14	16.22	38	23.76	3 48	13.23	30	92.68	18 21	16.41	3	0.67	15 43	16.07	33	8.01	17 36
14.01	10	16.83	3 53	16.41	38	23.76	1 57	16.22	30	92.83	13 56	14.96	3	0.80	17 16	16.41	34	8.12	16 19
15.51	10	16.89	9 03	16.07	9 55	84.30	19 51	15.92	30	92.86	13 07	16.22	4	0.99	17 17	16.41	34	8.15	13 58
16.07	10	16.99	7 25	16.41	55	84.44	16 04	15.46	30	92.96	17 35	16.22	5	1.19	12 09	15.46	34	8.15	15 27
14.91	11	17.17	4 49	16.41	56	84.59	16 01	14.43	31	93.11	14 09	15.71	6	1.34	10 37	15.56	34	8.18	17 54
15.61	11	17.20	9 59	13.36	57	84.84	15 48	15.97	32	93.26	16 32	15.71	7	1.70	12 52	16.41	34	8.25	14 36
13.31	12	17.26	0 25	15.31	58	85.04	17 03	14.24	34	93.63	10 31	15.81	7	1.77	11 10	14.48	35	8.41	13 26
15.71	12	17.42	8 34	16.07	58	85.06	15 11	16.02	36	94.20	10 02	13.61	8	2.00	10 22	14.91	35	8.49	15 17
16.41	12	17.43	1 13	14.96	58	85.15	14 05	16.41	36	94.24	10 24	15.92	8	2.02	14 37	14.91	35	8.54	11 23
13.78	13	17.51	2 25	8.9[1]	59	85.32	11 46	15.66	36	94.24	15 54	16.22	9	2.23	19 03	13.65	36	8.57	15 57
14.96	14	17.94	3 34	11.76	10 0	85.42	10 36	16.41	36	94.27	14 12	16.41	10	2.37	11 08	15.71	36	8.60	12 25
16.41	15	18.15	9 50	15.16	0	85.57	16 10	16.41	39	94.92	17 37	15.92	10	2.49	16 23	16.41	36	8.73	16 55
15.81	16	18.40	6 00	14.91	2	85.90	16 15	16.41	39	95.01	12 34	15.92	10	2.53	18 22	15.31	36	8.75	16 35
14.19	17	18.52	4 56	15.21	2	86.01	11 17	15.66	39	95.01	18 02	14.01	12	2.80	17 22	14.67	36	8.78	18 52
14.81	18	18.79	4 18	15.56	2	86.02	13 26	16.41	40	95.24	11 42	16.41	12	2.89	15 15	15.76	37	8.83	10 08
13.36	19	19.04	2 49	16.41	6	86.95	12 32	11.83	41	95.32	14 43	16.41	12	2.92	14 22	15.56	37	8.86	16 06
16.41	20	19.27	5 59	16.07	6	87.10	14 08	16.41	43	95.88	19 07	14.24	12	2.94	11 27	15.31	37	8.92	15 04
15.31	20	19.35	0 37	14.57	8	87.41	16 16	15.46	43	95.90	11 43	16.41	13	3.20	17 00	15.21	37	8.98	15 09
15.71	20	19.40	7 03	14.91	8	87.42	19 33	14.43	43	95.91	12 05	12.14	13	3.23	13 11	16.41	38	9.07	19 33
16.41	20	19.41	3 30	15.56	8	87.47	12 27	16.07	44	96.09	16 02	15.41	14	3.25	17 10	12.48	38	9.25	16 48
15.97	21	19.47	4 59	15.46	10	87.85	12 04	15.92	44	96.10	17 25	15.81	14	3.49	14 58	15.71	39	9.32	13 38
16.41	23	20.11	9 56	10.25*	10	87.85	11 08	13.78	44	96.23	15 44	16.41	16	3.76	19 22	16.41	39	9.45	18 49
15.46	23	20.12	2 31	14.48	10	87.94	19 02	10.77*	45	96.40	14 01	15.41	16	3.84	14 37	14.24	40	9.67	17 00
16.41	24	20.26	7 29	15.71	10	87.99	16 15	16.41	46	96.53	16 54	13.44	16	3.98	17 32	16.41	41	9.93	13 58
15.66	25	20.45	7 29	15.71?	11	88.13	11 41	16.07	47	96.76	12 56	14.72	18	4.37	17 34	15.31	43	10.42	14 09
12.84	25	20.46	3 45	15.06	11	88.23	15 11	10.60	48	97.23	12 38	15.97	18	4.38	10 55	16.41	45	10.76	15 24
14.96	25	20.47	8 02	14.57	12	88.41	10 08	14.81	49	97.31	12 21	15.31	19	4.52	12 13	16.41	45	10.79	19 53
16.41	26	20.79	4 25	16.41	14	88.90	14 08	16.41	49	97.38	10 47	14.72	19	4.67	15 56	16.41	45	10.84	19 33
16.41	26	20.81	2 01	16.22	15	89.22	19 53	12.84	49	97.42	18 41	12.12	19	4.67	19 08	15.71	45	10.95	14 52
15.97	28	21.20	2 45	16.22	15	89.26	13 29	15.92	50	97.60	17 23	15.31	21	5.09	17 57	14.96	46	11.08	11 08
13.96	28	21.20	4 43	16.22	16	89.40	14 15	15.56	51	97.92	15 40	15.16	21	5.14	14 06	15.21	46	11.16	10 38
16.41	29	21.41	6 59	15.92	17	89.67	12 28	15.92	52	98.10	12 50	16.41	22	5.27	16 42	16.07	47	11.29	11 27

[1] Magn. uncertain, extrapolated. Vis. magn. Harv. Ann. Vol **54** is 8·3.

25 prec. + 68 sec. + 2' 34".

19^h Area 87. + 15°

851—870				871—890				891—910				911—930				931—937			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.41	11 47	11.35	13 33	16.41	11 58	14.03	14 25	15.56	12 13	17.62	14 23	15.92	12 24	20.21	19 35	14.91	12 36	23.08	14 12
15.46	48	11.55	11 06	14.24	59	14.17	14 37	15.71	13	17.66	17 27	15.46	24	20.22	14 19	14.10	36	23.13	18 46
16.41	48	11.66	18 06	15.92	59	14.24	12 58	13.23	14	17.73	12 02	15.16	24	20.29	13 09	15.06	36	23.18	13 55
14.72	49	11.86	15 53	15.97	12 1	14.66	15 04	15.06	14	17.87	12 42	16.41	25	20.42	17 15	15.56	36	23.23	18 32
16.41	50	12.13	11 07	15.06	3	15.23	12 01	15.31	16	18.31	19 59	15.31	26	20.70	18 30	15.06	36	23.23	11 08
16.22	50	12.17	16 12	8.7 1)	4	15.48	10 25	16.22	16	18.44	14 19	15.41	27	20.96	10 36	16.41	38	23.70	17 04
15.66	51	12.28	14 16	15.41	5	15.61	19 52	16.41	17	18.46	13 24	15.56	28	21.11	10 19	16.41	39	23.87	18 13
15.92	51	12.35	19 16	15.71	5	15.65	16 49	14.01	17	18.53	12 15	16.41	29	21.41	19 34				
16.41	53	12.72	14 55	15.66	5	15.65	18 35	14.96	17	18.55	16 07	15.66	29	21.58	12 35				
16.41	53	12.77	17 13	16.41	6	15.85	18 53	13.96	17	18.68	10 28	15.71	29	21.58	19 56				
13.87	54	13.01	11 51	15.46	6	15.98	10 09	14.48	18	18.74	17 53	15.46	30	21.64	18 04				
15.41	55	13.26	14 14	15.06	7	16.07	17 54	15.66	19	18.95	10 18	15.46	30	21.82	14 11				
15.21	55	13.28	15 59	15.31	7	16.26	16 03	15.66	20	19.21	15 33	16.41	31	22.03	12 20				
15.46	55	13.30	13 48	15.71	8	16.32	15 23	14.24	20	19.26	18 26	14.19	32	22.07	16 30				
15.16	55	13.32	17 36	15.46	11	17.12	15 38	15.36	20	19.34	10 10	16.41	32	22.09	17 23				
15.97	56	13.39	12 52	15.66	11	17.12	12 43	13.74	20	19.35	11 09	14.10	32	22.17	18 10				
15.81	56	13.60	11 50	12.31	12	17.33	18 46	16.41	22	19.67	13 39	16.07	32	22.22	17 51				
15.71	57	13.67	19 50	15.71	12	17.39	12 15	15.81	22	19.88	17 54	14.01	33	22.40	11 48				
16.22	57	13.74	14 08	15.41	12	17.41	17 38	16.41	23	19.99	13 09	15.66	34	22.59	19 32				
15.81	57	13.83	17 34	16.41	13	17.55	11 34	15.81	23	19.99	11 30	15.46	35	22.92	15 55				

25 prec. + 68 sec. + 2′ 35″.

20^h Area 88. Centre for 1900: $20^h\ 10^m + 15°\ 10'$. + 14°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$	Int. magn.	a	x	$y+70'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.00	9 35	94.05	50 55	14.51	9 47	96.87	59 01	13.01	9 55	98.70	58 24	15.81	10 1	0.35	58 56	15.10	10 11	2.63	59 59
16.00	36	94.13	56 34	15.81	47	96.91	53 35	15.55	55	98.85	52 59	14.95	2	0.36	55 51	14.46	11	2.67	50 16
14.46	36	94.18	50 28	16.00	47	96.95	56 40	14.95	55	98.86	59 24	15.10	2	0.40	50 05	15.66	11	2.75	53 39
16.00	36	94.31	56 45	14.75	48	97.03	51 46	14.95	56	98.92	52 07	15.66	3	0.76	51 19	16.00	13	3.06	59 50
12.56	37	94.48	51 48	16.00	49	97.39	59 34	15.21	56	98.99	56 44	14.95	3	0.80	58 22	14.70	13	3.09	51 23
16.00	39	94.87	56 10	16.00	50	97.53	50 11	15.81	57	99.19	52 07	14.60	4	0.86	52 55	15.21	13	3.11	54 55
4.96 2)	39	94.96	53 37	15.27	50	97.54	54 48	16.00	57	99.23	55 28	15.81	4	0.94	52 18	15.38	13	3.21	51 02
15.27?	40	95.10	54 37	11.48	51	97.71	56 33	14.51	57	99.35	53 18	13.69	6	1.55	55 11	13.37	14	3.49	56 05
16.00	40	95.11	55 57	16.00	51	97.71	56 00	12.34	58	99.42	56 12	15.55	7	1.73	57 20	16.00	15	3.73	55 20
16.00	41	95.50	50 38	15.27	51	97.76	56 40	15.66	58	99.46	58 16	15.27	7	1.74	54 45	13.55	16	3.88	51 04
16.00	42	95.58	55 56	16.00	51	97.81	58 52	13.24	58	99.60	58 57	15.27	7	1.77	56 21	16.00	17	4.19	50 05
16.00	43	95.83	56 00	14.70	51	97.93	53 00	15.27	59	99.86	59 14	16.00	8	1.83	57 37	13.38	18	4.34	59 11
15.66	43	95.97	56 57	15.21	52	98.03	52 50	15.66	10 0	99.98	59 46	9.78	8	2.05	52 55	15.66	18	4.45	50 12
15.27	44	96.22	58 03	14.60	52	98.04	54 10	16.00	0	99.99	56 03	15.27	9	2.23	57 54	14.28	19	4.54	57 36
16.00	44	96.22	56 29	16.00	52	98.14	58 30	15.10	0	99.99	53 43	13.01	10	2.31	51 31	15.21	19	4.67	58 58
15.27	45	96.37	58 05	15.66	52	98.19	55 10	14.60	0	0.06	50 11	15.10	10	2.35	59 45	15.27	20	4.78	51 44
9.88	46	96.64	50 00	15.81	53	98.20	59 54	13.01	0	0.11	54 10	15.00	10	2.44	54 28	15.00	20	4.85	56 07
16.00	46	96.64	51 40	16.00	53	98.42	53 36	15.81	0	0.12	55 26	14.70	10	2.44	55 33	14.51	20	4.90	55 04
16.00	46	96.69	54 18	14.70	54	98.48	56 07	14.60	1	0.16	57 04	14.95	10	2.44	57 58	14.46	20	4.92	57 57
16.00	47	96.82	56 50	15.81	54	98.50	56 14	15.66	1	0.23	54 29	15.27	10	2.50	53 56	15.55	20	4.93	53 17

25 prec. + 69 sec. + 4′ 29″.

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1) Magn. uncertain, extrapolated. Vis. magn. Harv. Ann. Vol. **54** is 8.4.

2) Vis. magn. from Harv. Ann. 50, red. to photogr. magn. by Harv. Ann. **71**, p. 7.

20^{h}

Area 88.

$+14^{\circ}$

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.55	10 21	5.12	52 20	16.00	10 42	10.15	55 28	15.81	11 3	15.12	53 14	16.00	11 26	20.87	59 32	15.10	11 53	27.34	58 44
15.21	21	5.16	57 00	14.60	42	10.15	57 58	15.21	3	15.20	52 54	13.60	27	21.06	57 08	16.00	53	27.38	51 35
14.60	22	5.24	56 29	16.00	42	10.18	55 35	14.46	3	15.23	50 57	14.51	29	21.46	53 37	13.69	54	27.56	53 28
12.56	22	5.26	54 25	15.38	43	10.29	54 46	11.69	4	15.40	57 33	14.14	29	21.48	52 35	15.66	54	27.60	58 01
14.05	24	5.76	51 56	15.49	44	10.53	52 17	15.10	5	15.68	53 46	15.21	29	21.57	50 34	14.60	55	27.71	52 06
15.27	24	5.83	52 08	14.28	44	10.54	50 40	13.91	5	15.75	50 42	15.21	30	21.77	58 52	16.00	56	27.91	58 15
14.60	24	5.83	57 02	16.00	44	10.56	59 35	16.00	5	15.81	55 19	16.00	30	21.80	56 03	14.14	56	27.91	51 08
16.00	24	5.89	59 07	16.00	44	10.67	57 09	13.82	6	15.84	50 17	13.69	31	21.87	54 09	15.27	56	28.08	50 17
14.00	25	5.93	58 23	14.85	45	10.78	59 00	16.00	6	16.01	50 01	16.00?	31	22.03	58 20	16.00	57	28.28	59 22
16.00	25	5.93	54 23	16.00	45	10.87	56 42	13.33	7	16.20	53 29	14.75	31	22.03	58 16	15.55	58	28.44	57 07
16.00	25	5.94	56 59	15.10	45	10.98	54 29	15.38	7	16.28	54 17	15.66	32	22.30	51 45	15.81	58	28.46	58 39
14.41	25	5.98	54 08	16.00	46	11.00	51 36	14.95	8	16.36	52 56	14.70	33	22.45	51 59	16.00	58	28.60	56 35
15.81	25	5.98	52 46	14.46	46	11.04	55 34	14.75	9	16.57	55 18	15.49	33	22.47	56 57	14.51	59	28.80	57 40
14.51	25	5.99	55 31	15.21	47	11.35	55 49	14.70	10	16.81	51 09	15.81	34	22.59	59 44	16.00	59	28.84	55 18
14.37	25	6.05	52 31	16.00	48	11.62	58 09	14.70	10	16.89	56 47	14.51	34	22.68	57 28	15.49	12 0	28.98	52 47
15.55	26	6.17	56 21	12.56	48	11.63	56 42	15.81	11	17.08	50 59	13.82	34	22.73	53 01	14.37	0	28.98	54 21
9.63	26	6.24	55 04	16.00	48	11.67	53 06	16.00	12	17.31	57 40	16.00	34	22.83	55 07	15.49	0	29.08	52 15
16.00	27	6.54	54 35	13.69	49	11.91	57 51	13.33	12	17.44	51 28	13.10	36	23.10	52 49	9.32*	1	29.23	57 57
16.00	27	6.59	53 57	15.81	50	12.04	51 33	15.55	12	17.46	51 11	14.85	37	23.38	57 20	15.27	2	29.35	55 55
15.66	28	6.70	51 36	15.27	50	12.05	58 42	14.23	12	17.50	51 22	15.81	37	23.38	58 31	15.66	2	29.45	52 33
16.00	29	6.96	54 45	15.38	50	12.14	56 14	15.49	13	17.64	52 46	14.37	37	23.52	52 43	15.66	2	29.57	58 08
15.27	29	7.02	53 33	14.90	51	12.25	57 33	15.44	13	17.65	59 56	16.00	38	23.56	53 32	16.00	3	29.60	52 19
15.27	29	7.03	58 20	15.27	51	12.34	53 02	15.81	13	17.70	53 15	15.66	38	23.66	52 02	15.49	3	29.68	58 29
15.81	29	7.09	59 27	15.27	51	12.38	51 10	16.00	14	17.76	57 34	15.00	39	23.94	52 58	15.55	3	29.76	58 00
15.49	29	7.11	52 58	14.95	52	12.44	56 19	15.81	14	17.90	57 40	15.81	39	23.98	55 59	15.38	4	29.96	52 48
15.81	29	7.13	59 46	15.66	52	12.53	58 46	15.81	14	17.91	58 01	14.05	39	23.99	51 29	14.75	4	30.03	52 58
16.00	30	7.27	54 11	15.55	53	12.76	55 24	15.27	14	17.94	58 50	15.27	42	24.59	50 48	15.21	5	30.20	59 36
15.55	31	7.43	59 37	15.21	53	12.87	50 33	15.66	15	18.20	59 52	14.28	42	24.63	57 57	16.00	5	30.22	54 17
15.66	31	7.44	58 35	15.10	53	12.90	53 35	14.28	16	18.43	54 49	16.00	43	24.85	55 21	15.81	6	30.42	57 03
14.28	33	8.07	58 20	16.00	53	12.92	55 45	16.00	17	18.60	58 52	15.27	43	24.88	54 38	16.00	6	30.52	55 08
13.60	34	8.11	52 06	16.00	54	13.01	56 21	15.55	17	18.68	54 03	15.38	44	25.18	54 36	15.81	8	30.87	50 50
15.81	34	8.13	52 26	14.51	55	13.24	52 04	16.00	18	18.76	57 55	15.55	45	25.26	57 51	15.27	8	30.89	52 21
16.00	34	8.14	51 21	14.05	55	13.28	55 25	14.37	18	18.77	52 53	14.85	46	25.52	53 27	14.95	8	30.93	52 08
15.38	34	8.19	59 06	14.51	55	13.31	50 14	16.00	18	18.80	50 32	16.00	46	25.57	55 24	15.27	8	30.97	59 54
14.95	34	8.23	56 51	15.66	57	13.72	56 50	16.00	18	18.91	53 02	16.00	46	25.57	56 12	15.81	8	31.01	57 56
14.37	35	8.43	59 52	16.00	57	13.72	52 10	16.00	20	19.22	57 00	16.00	47	25.75	50 35	10.55	8	31.03	55 04
16.00	35	8.47	56 44	16.00	57	13.80	58 37	15.66	20	19.42	58 44	15.66	48	25.97	58 53	14.75	9	31.10	54 29
16.00	36	8.59	51 40	14.70	57	13.82	58 03	16.00	21	19.49	50 40	14.51	48	26.15	52 07	15.21	9	31.19	52 55
15.27	36	8.80	56 47	16.00	57	13.87	51 05	15.81	22	19.79	58 01	15.38	48	26.20	59 44	15.10	9	31.23	58 37
13.60	37	8.90	54 50	14.90	58	14.06	59 41	14.60	22	19.79	54 56	14.46	49	26.38	59 22	12.79	10	31.35	55 11
16.00	37	8.97	52 29	15.21	59	14.23	51 22	13.55	22	19.88	51 24	16.00	50	26.56	53 16	14.28	10	31.37	53 56
14.60	37	8.99	57 32	15.66	11 0	14.44	58 30	15.81	23	20.04	50 20	15.81	50	26.61	53 00	15.66	10	31.39	51 52
15.66	38	9.13	51 32	14.70	0	14.45	59 26	15.66	23	20.08	59 33	15.38	50	26.67	52 43	14.28	10	31.51	55 19
16.00	38	9.22	51 02	16.00	1	14.69	55 08	16.00	23	20.15	53 01	16.00	50	26.68	50 56	13.55	11	31.61	57 48
16.00	38	9.23	55 53	15.21	1	14.74	50 45	15.10	24	20.17	53 28	14.23	51	26.81	56 58	14.95	11	31.67	50 14
14.14	39	9.41	58 26	16.00	1	14.85	52 16	14.23	24	20.35	58 37	11.28	51	26.89	51 41	14.85	12	31.83	51 04
15.66	41	9.81	53 54	14.46	2	14.87	58 43	14.28	24	20.40	53 59	16.00	52	26.94	55 58	14.46	12	31.84	52 10
15.27	42	10.02	50 51	13.55	2	14.95	58 59	15.81	25	20.48	56 43	14.00	52	26.97	59 12	14.75	12	31.87	50 15
14.80	42	10.05	59 58	14.51	2	14.98	57 23	14.28	26	20.77	52 08	14.75	52	27.06	59 52	13.69	12	31.90	59 06
16.00	42	10.12	56 05	14.60	2	15.03	59 57	16.00	26	20.83	50 56	16.00	52	27.11	50 56	13.55	12	31.94	55 58

25 prec. + 69 sec. + 4′ 32″.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	y+70′ / y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.00	12 14	32.28	57 06	15.10	9 52	97.96	5 29	15.66	10 13	3.09	1 32	15.00	10 38	9.10	1 00	13.78	11 2	14.92	0 31
15.81	15	32.50	53 56	16.00	52	98.07	2 04	15.66	13	3.20	7 45	16.00	38	9.20	7 54	13.15	2	14.92	6 54
15.38	15	32.56	50 59	16.00	52	98.08	0 08	16.00	14	3.28	9 49	16.00	39	9.37	6 00	15.27	2	14.92	7 16
15.21	15	32.62	57 36	13.15	52	98.16	0 26	15.81	15	3.54	4 14	16.00	40	9.57	3 03	15.55	2	14.94	1 41
15.81	15	32.70	57 07	15.81	53	98.41	9 12	14.95	16	3.75	1 35	15.21	40	9.57	0 28	14.60	2	15.01	1 31
14.75	16	32.75	52 22	15.66	54	98.50	0 23	14.90	16	3.89	0 17	16.00	40	9.71	8 26	15.27	3	15.23	8 52
13.60	16	32.81	56 28	12.56	55	98.70	4 58	15.27	17	3.99	3 52	15.38	42	10.04	8 41	16.00	3	15.26	5 39
14.95	16	32.82	54 46	14.75	55	98.73	2 54	14.60	17	4.03	8 29	15.00	42	10.10	3 04	14.46	3	15.30	3 49
14.85	16	32.94	50 55	14.00	55	98.79	6 10	14.05	17	4.07	5 24	15.66	42	10.14	4 52	11.28	4	15.33	3 17
14.28	17	33.08	50 36	14.46	56	99.09	1 23	12.12	17	4.09	1 39	14.05	42	10.26	0 12	12.79	4	15.33	0 49
14.28	17	33.09	51 24	14.70	56	99.09	6 32	16.00	17	4.11	5 01	15.81	44	10.64	4 41	15.10	4	15.53	4 49
15.49	18	33.27	54 38	16.00	56	99.10	8 35	15.38	17	4.12	9 40	15.00	44	10.74	2 12	15.27	5	15.75	5 33
14.05	18	33.37	57 28	14.51	57	99.20	4 29	15.38	17	4.21	8 37	11.01	45	10.86	4 09	14.28	6	15.81	4 46
14.46	18	33.41	54 07	14.23	57	99.34	1 41	16.00	18	4.36	1 33	16.00	45	10.86	2 54	14.23	6	15.96	2 22
15.81	9 36	94.12	8 42	14.85	59	99.66	5 02	14.80	18	4.36	0 08	15.38	45	10.95	5 45	14.51	7	16.21	4 36
16.00	36	94.13	6 01	15.49	10 0	99.88	4 50	14.23	20	4.80	9 50	15.55	47	11.43	9 56	16.00	7	16.25	7 17
15.27	37	94.39	2 41	14.23	0	99.91	2 34	15.38	21	4.98	2 56	15.66	47	11.43	4 35	13.37	7	16.26	5 23
14.60	38	94.78	5 59	15.27	0	99.94	5 30	15.27	22	5.31	1 06	14.60	48	11.55	4 11	11.69	8	16.30	1 58
16.00	39	94.87	2 44	15.81	1	0.31	5 13	13.82	22	5.42	6 26	14.75	48	11.59	6 14	6.58*	8	16.53	0 43
16.00	39	94.91	1 09	14.70	1	0.31	4 18	14.28	23	5.54	2 36	15.66	48	11.66	2 28	13.24	9	16.55	5 58
15.55	39	95.03	1 03	14.70	2	0.46	0 44	16.00	23	5.56	0 25	15.27	48	11.68	0 10	15.49	10	17.01	6 12
16.00	40	95.07	1 56	14.95	2	0.54	8 25	16.00	24	5.68	4 52	15.81	49	11.73	7 30	15.49	11	17.14	4 54
16.00	40	95.22	2 34	14.70	3	0.79	1 28	15.21	25	6.09	8 52	14.37	49	11.80	0 02	14.60	12	17.39	3 06
13.78	43	95.98	4 21	13.15	4	0.97	6 48	16.00	26	6.15	2 09	14.75	49	11.90	7 20	15.81	12	17.49	9 15
16.00	43	96.00	2 47	15.38	4	0.99	5 27	14.46	26	6.35	8 11	14.14	50	12.08	3 35	15.81	13	17.51	3 24
14.75	44	96.15	4 58	16.00	4	1.07	3 36	16.00	27	6.41	1 13	15.21	50	12.14	7 52	14.75	13	17.68	6 15
14.75	44	96.19	8 18	11.69	5	1.31	9 52	13.82	27	6.45	4 44	14.55	51	12.40	0 10	14.46	13	17.69	9 01
14.14	44	96.20	5 09	16.00	6	1.35	7 40	15.66	27	6.58	8 17	16.00	52	12.49	6 57	13.01	14	17.74	8 49
14.51	44	96.25	7 09	15.66	6	1.36	4 10	16.00	28	6.76	5 29	15.81	52	12.51	2 36	15.21	15	18.11	0 15
14.85	45	96.38	6 42	13.78	6	1.40	3 00	16.00	28	6.77	2 39	16.00	53	12.86	0 32	15.21	15	18.18	5 26
16.00	45	96.41	6 23	15.55	6	1.48	0 55	15.66	28	6.84	1 28	15.66	54	13.00	9 11	13.69	15	18.22	7 27
15.49	45	96.46	9 13	16.00	7	1.59	0 45	15.66	28	6.87	1 38	16.00	54	13.01	1 15	14.37	16	18.24	2 45
15.00	45	96.48	9 29	15.55?	7	1.67	1 42	14.75	29	6.98	2 31	15.66	55	13.25	7 58	12.74	16	18.30	0 34
14.85	46	96.55	8 06	14.51	7	1.72	3 40	15.27	30	7.13	6 38	15.10	56	13.46	2 55	16.00	16	18.32	8 36
16.00	46	96.62	7 40	16.00	7	1.78	6 27	15.81	30	7.22	5 27	13.33	56	13.50	8 30	15.49	16	18.32	3 13
16.00	46	96.62	4 37	14.28	7	1.79	2 33	15.66	30	7.34	2 28	8.16*	57	13.73	7 55	14.51	16	18.41	7 45
12.12	48	97.06	3 28	14.46	8	1.92	4 35	16.00	32	7.67	5 23	14.70	57	13.75	6 26	15.27	17	18.50	5 09
13.69	48	97.08	2 31	16.00	8	1.99	1 39	14.05	32	7.82	8 15	15.66	57	13.81	5 32	14.00	17	18.60	6 03
15.55	48	97.12	9 02	10.70	8	2.00	4 12	16.00	32	7.84	6 39	16.00	57	13.84	3 14	16.00	17	18.64	0 19
14.75	48	97.19	2 53	14.51	10	2.39	2 22	11.48	33	7.88	2 27	15.49	58	13.96	3 22	14.85	18	18.71	7 36
15.81	48	97.23	7 11	16.00	11	2.66	7 52	14.14	33	8.08	9 55	13.69 1)	58	14.01	7 54	16.00	18	18.71	3 52
14.70	49	97.27	8 07	16.00	11	2.67	8 07	16.00	34	8.27	7 15	14.95	58	14.06	3 03	14.51	20	19.23	3 49
15.27	49	97.31	5 25	14.85	11	2.67	0 00	14.46	35	8.43	5 12	16.00	59	14.19	3 10	15.38	21	19.44	4 12
15.00	50	97.54	1 23	14.46	11	2.74	6 06	15.81	36	8.74	8 05	12.79	59	14.26	4 38	16.00	21	19.54	3 12
15.66	50	97.55	7 03	16.00	12	2.89	2 50	14.60	36	8.75	2 59	15.81	11 1	14.69	5 09	12.56	22	19.69	9 01
13.69	50	97.61	4 55	15.27	12	2.95	9 22	14.60	37	8.82	7 38	16.00	1	14.70	3 02	14.60	22	19.80	2 18
15.66	50	97.63	7 33	14.70	12	3.00	7 33	15.27	37	8.96	9 13	14.60	1	14.75	8 36	13.46	23	19.93	3 34
15.55	51	97.85	5 50	16.00	12	3.01	2 38	15.66	38	9.07	8 57	15.49	1	14.82	8 33	13.78	23	20.04	3 22
16.00	51	97.90	1 27	15.27	13	3.08	5 57	16.00	38	9.09	4 24	16.00	2	14.89	8 04	14.85	24	20.33	8 40
15.00	51	97.91	5 10	14.85	13	3.08	3 57	14.85	38	9.09	4 03	14.51	2	14.91	0 18	13.91	24	20.40	1 04

1) Magnitude somewhat uncertain. Star partly covered by No. 536.

25 prec. + 69 sec. + 4′ 30″.

601—650				651—700				701—750				751—800				801—850			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.21	11 26	20.75	2 10	14.14	11 49	26.22	2 21	15.21	12 12	31.84	9 02	13.78	9 54	98.56	10 45	14.95	10 14	3.32	10 54
16.00	26	20.80	6 07	14.51	49	26.38	0 23	16.00	12	31.85	3 06	12.34	55	98.76	11 13	11.69	15	3.71	15 17
13.96	27	20.97	0 13	15.81	50	26.61	8 47	15.27	12	31.89	8 49	15.27	56	99.01	15 52	14.51	16	3.73	11 37
14.37	27	21.00	7 18	14.70	51	26.69	9 50	15.81	13	32.01	9 55	14.75	56	99.08	11 27	16.00	16	3.91	18 19
13.69	27	21.05	1 11	15.10	51	26.79	6 15	15.27	13	32.13	4 29	16.00	56	99.11	15 03	13.37	16	3.92	11 24
16.00	27	21.08	5 58	15.81	51	26.79	4 09	15.49	13	32.17	1 40	15.81	56	99.12	12 07	15.49	17	4.02	12 08
16.00	28	21.31	1 27	14.85	51	26.81	3 43	15.27	14	32.25	2 49	14.95	56	99.16	12 54	15.66	17	4.05	12 37
16.00	29	21.60	0 16	11.69	52	26.96	8 44	14.60	14	32.28	5 15	13.82	57	99.19	13 41	14.14	17	4.21	17 23
16.00	30	21.61	6 02	14.60	52	27.10	1 38	11.69	14	32.36	3 38	12.92	58	99.42	14 27	15.27	18	4.22	18 22
13.46	30	21.66	5 43	16.00	52	27.11	5 46	14.51	15	32.51	4 06	15.27	58	99.46	16 09	16.00	18	4.26	12 10
14.60	30	21.80	7 13	16.00	53	27.16	8 21	15.81	15	32.57	6 36	14.95	58	99.46	17 04	14.19	18	4.30	10 34
14.95	31	21.93	4 20	14.23	53	27.21	3 00	15.10	16	32.72	0 48	16.00	58	99.55	15 22	16.00	18	4.33	17 02
15.27	33	22.43	4 18	15.81	53	27.33	6 10	14.37	16	32.74	7 52	15.21	59	99.65	18 29	15.55	19	4.54	10 46
14.23	33	22.47	9 56	16.00	54	27.48	2 03	14.28	17	32.96	0 38	15.55	59	99.65	12 09	16.00	19	4.56	13 18
15.55	33	22.50	9 40	14.95	54	27.50	2 24	15.55	18	33.43	2 49	16.00	59	99.75	17 48	16.00	19	4.68	11 27
16.00	34	22.57	4 29	14.85	54	27.57	1 05	14.60	20	33.79	4 35	16.00	10 0	99.93	17 50	15.27	20	4.76	11 37
14.51	35	22.84	6 32	16.00	54	27.61	8 58	16.00	20	33.83	9 28	14.46	1	0.29	19 25	15.27	20	4.81	17 03
14.46	35	22.84	1 30	15.49	55	27.66	7 16	14.05	20	33.88	0 48	10.69	2	0.36	15 46	14.37	20	4.88	17 12
11.48	35	23.04	4 30	16.00	55	27.84	6 17	14.95	20	33.90	9 17	14.51	2	0.46	17 25	15.00	21	5.02	17 53
16.00	36	23.13	1 03	14.37	56	27.91	5 37	14.70	9 36	94.18	19 55	15.00	2	0.51	13 18	14.14	21	5.08	11 56
15.21	36	23.17	8 12	13.91	56	27.96	9 56	16.00	38	94.58	17 46	15.10	2	0.56	10 46	16.00	21	5.14	12 38
13.91	37	23.40	3 42	16.00	56	28.02	6 15	15.49	38	94.62	19 11	14.85	4	0.86	13 24	13.69	23	5.44	11 56
15.38	37	23.42	5 34	15.00	56	28.07	2 13	16.00	39	94.83	12 40	16.00	4	0.96	14 39	14.23	23	5.54	15 18
16.00	37	23.50	8 41	15.81	57	28.17	8 23	15.10	39	94.86	12 05	16.00	4	1.01	18 53	13.78	23	5.56	19 50
10.27	38	23.55	6 40	14.51	57	28.26	4 14	14.85	39	95.04	11 32	15.21	4	1.06	13 32	12.56	23	5.60	13 17
16.00	39	23.82	1 53	13.91	58	28.37	9 04	16.00	40	95.07	11 09	16.00	5	1.19	10 48	14.14	24	5.72	16 20
13.01	39	23.91	5 05	10.47	58	28.42	7 44	13.60	40	95.28	13 51	15.21	5	1.19	16 15	16.00	24	5.73	18 05
16.00	39	23.99	4 10	14.95	58	28.50	4 53	15.21	41	95.35	15 01	15.38	5	1.22	15 46	16.00	24	5.84	13 13
16.00	40	24.07	4 00	15.00:	58	28.60	4 11	15.00	41	95.37	11 17	13.69	6	1.33	11 38	16.00	26	6.21	13 19
16.00	40	24.09	2 09	15.55	59	28.80	5 12	16.00	42	95.74	16 28	16.00	6	1.42	13 01	13.60	26	6.24	11 41
16.00	40	24.19	1 36	14.95	59	28.81	5 21	14.00	42	95.77	11 28	16.00	6	1.46	14 18	13.46	27	6.53	12 00
16.00	40	24.21	0 15	15.66	12 0	28.99	6 00	16.00	44	96.05	10 39	15.38	6	1.55	12 26	15.10	28	6.71	16 08
14.85	41	24.39	4 38	15.21	0	29.06	3 44	14.51	44	96.08	17 32	15.49	7	1.65	13 20	15.81	28	6.72	15 52
15.81	41	24.44	6 06	15.27	1	29.28	4 42	15.00	44	96.25	19 28	15.21	7	1.69	19 39	15.81	28	6.76	19 11
15.00	41	24.47	5 44	12.79	1	29.30	6 10	15.81	45	96.27	18 19	15.38	7	1.74	12 45	15.00	28	6.81	12 54
14.70	42	24.52	3 20	14.37	3	29.71	7 16	15.27	45	96.28	13 54	14.46	8	1.88	19 04	15.00	28	6.88	19 34
15.27	42	24.57	2 23	16.00	4	29.92	6 27	16.00	45	96.33	10 46	14.23	8	1.89	14 37	14.05	29	6.90	13 10
15.21	42	24.72	7 28	13.42	5	30.26	0 12	16.00	45	96.43	10 09	14.37	8	2.01	14 53	15.00	30	7.13	18 17
16.00	43	24.94	7 18	15.10	7	30.55	5 31	14.70	46	96.57	12 39	16.00	9	2.10	17 52	14.00	30	7.33	15 21
15.55	44	25.02	8 34	13.42	8	30.85	0 26	14.46	46	96.57	11 36	14.14	9	2.25	15 31	13.33	31	7.40	19 54
14.60	44	25.08	8 39	14.60	8	30.92	8 01	12.79	47	96.96	14 37	14.95	11	2.58	19 01	15.38	31	7.44	13 16
15.81	44	25.22	9 10	14.51	8	31.02	2 27	16.00	48	97.08	13 33	10.32	12	2.80	12 23	11.69	31	7.50	14 15
15.44	45	25.28	0 10	15.10	9	31.15	6 05	16.00	48	97.08	18 28	10.74	12	2.81	17 00	16.00	31	7.56	10 10
16.00	45	25.34	6 46	15.66	9	31.23	4 40	16.00	48	97.16	14 32	16.00	12	2.82	11 31	16.00	32	7.82	12 20
13.82	45	25.36	2 13	15.49	10	31.27	5 15	12.12	49	97.24	14 43	12.79	12	2.85	17 27	15.66	32	7.83	16 26
15.27	46	25.46	4 53	15.81	10	31.36	1 37	13.24	52	98.02	19 05	15.27	12	2.95	11 26	13.15	33	7.93	18 56
13.78	46	25.50	3 06	16.00	11	31.57	3 32	15.10	52	98.17	16 32	11.69	12	2.98	19 32	14.70	34	8.19	12 08
14.60	47	25.84	0 40	14.95	11	31.70	1 00	16.00	52	98.18	11 53	16.00	13	3.12	15 10	14.14	35	8.35	14 31
15.21	47	25.86	3 25	14.46	11	31.73	3 16	16.00	53	98.32	10 00	14.37	13	3.22	13 31	16.00	35	8.35	19 08
14.60	49	26.22	5 58	15.27	11	31.73	1 20	16.00	53	98.41	17 42	14.51	14	3.28	18 43	16.00	35	8.42	10 08

25 prec. + 69 sec. + 4′ 31″.

851—900				901—950				951—1000				1001—1050				1051—1100			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.60	10 36	8.59	12 14	14.46	10 53	12.83	13 29	11.90	11 12	17.24	15 38	14.51	11 34	22.79	15 40	15.81	11 53	27.20	16 39
16.00	36	8.67	17 52	14.75	54	13.01	11 17	15.55	12	17.39	12 52	14.14	35	22.82	14 48	12.92	53	27.24	14 04
16.00	36	8.68	19 59	16.00	54	13.04	19 25	13.82	12	17.46	12 45	14.00	36	23.08	16 49	14.95	53	27.31	15 17
16.00	36	8.78	16 01	15.27	55	13.16	11 37	13.91	13	17.60	17 40	14.37	36	23.14	19 21	15.21	54	27.42	12 22
15.81	36	8.81	17 41	15.81	55	13.17	13 20	15.55	14	17.74	18 00	16.00	36	23.21	11 29	14.70	54	27.57	13 05
14.70	37	8.84	17 35	15.81	55	13.21	14 05	15.49	14	17.80	18 02	14.46	37	23.32	13 02	15.49	55	27.76	11 07
15.21	37	8.88	10 37	16.00	55	13.29	12 29	16.00	14	17.90	11 38	14.70	37	23.35	16 53	13.24	55	27.77	11 02
15.10	37	9.03	16 01	14.37	56	13.45	17 07	15.10	15	18.05	14 08	15.81	37	23.44	10 30	14.05	56	28.07	17 56
15.00	37	9.03	16 29	16.00	56	13.48	14 03	11.90	15	18.10	17 19	14.05	37	23.46	10 51	13.24	57	28.18	14 35
14.55	37	9.04	19 34	16.00	56	13.49	12 34	15.49	17	18.51	14 57	13.60	37	23.48	16 21	15.27	57	28.33	18 42
14.60	38	9.05	12 28	16.00	56	13.55	13 23	15.66	17	18.52	18 18	13.78	37	23.50	14 50	16.00	58	28.40	13 19
14.60	38	9.23	19 03	15.81	56	13.55	10 55	15.66	18	18.84	18 48	13.55	38	23.54	12 14	16.00	58	28.57	11 37
13.69	39	9.33	17 33	13.69	56	13.61	17 35	14.75	18	18.85	17 11	15.21	38	23.58	11 43	15.66	59	28.77	18 50
14.46	39	9.45	12 59	16.00	57	13.64	15 10	14.85	18	18.88	11 30	15.32	38	23.59	19 23	13.60	12 0	28.83	19 22
14.37	39	9.48	10 37	14.95	57	13.77	17 55	16.00	19	18.97	18 24	16.00	38	23.64	11 46	14.85	0	28.86	12 39
16.00	40	9.55	17 09	16.00	58	13.90	10 03	14.95	19	19.01	16 45	14.37	39	23.77	16 42	15.38	0	28.96	11 18
14.23	40	9.62	11 21	14.95	58	13.91	12 48	14.51	19	19.01	18 17	14.14	39	23.78	13 40	16.00	0	28.97	17 25
15.38	40	9.62	16 40	14.85	59	14.12	10 44	14.60	19	19.03	19 04	16.00	39	23.85	19 46	15.44	0	29.00	10 26
15.81	40	9.63	18 33	16.00	59	14.15	17 22	16.00	19	19.10	15 33	15.10	39	23.91	12 35	14.70	1	29.07	13 38
14.70	41	9.86	14 28	15.21	59	14.29	18 33	14.60	20	19.24	19 24	14.51	40	24.03	11 24	15.00	1	29.20	12 28
16.00	41	9.87	14 38	14.00	59	14.31	13 40	15.27	20	19.31	11 52	15.00	40	24.05	15 35	16.00	2	29.30	13 19
15.81	41	9.88	13 50	13.69	11 0	14.40	13 58	14.95	20	19.36	11 17	14.70	40	24.08	12 18	14.70	2	29.35	19 24
14.00	41	9.89	12 32	10.49	0	14.41	16 31	15.49	21	19.44	15 53	12.56	40	24.13	19 50	15.81	3	29.55	12 32
16.00	41	9.90	18 06	14.51	0	14.41	15 20	16.00	21	19.57	14 43	15.81	41	24.28	12 56	14.37	3	29.66	18 03
15.38	41	10.00	12 22	15.66	0	14.43	11 59	15.81	22	19.88	15 38	11.69	41	24.47	15 45	16.00	3	29.75	16 53
12.34	42	10.16	15 48	14.75	0	14.54	10 18	15.55	23	20.05	18 29	14.23	42	24.51	19 43	14.05	5	30.11	17 09
16.00	43	10.31	17 21	14.28	0	14.55	11 40	14.85	24	20.22	12 59	14.60	42	24.53	12 00	14.70	6	30.33	15 20
13.06	43	10.47	19 44	14.28	0	14.59	15 24	14.60	24	20.25	15 35	13.91	43	24.90	14 46	11.48	6	30.47	19 07
15.21	43	10.48	14 49	16.00	1	14.60	16 01	15.49	26	20.74	13 39	16.00	43	24.95	18 24	16.00	7	30.66	17 43
10.76	44	10.54	17 07	15.66	1	14.71	14 10	14.95	26	20.78	15 51	16.00	44	24.98	19 23	14.51	8	30.90	18 08
14.28	44	10.55	17 20	15.38	1	14.74	16 33	14.85	27	20.89	16 47	14.60	44	25.02	17 07	14.70	8	30.98	17 20
16.00	44	10.66	13 14	12.92	1	14.77	14 56	14.95	27	20.97	19 04	14.51	44	25.08	12 55	16.00	9	31.21	15 53
12.92	45	10.78	16 29	15.66	2	14.91	15 30	14.14	27	21.08	18 32	14.05	44	25.13	16 39	13.82	11	31.63	11 37
16.00	46	10.99	11 49	15.27	2	14.93	16 42	13.69	27	21.09	19 30	13.69	45	25.21	15 59	14.46	12	31.73	17 42
13.24	46	10.99	11 02	14.95	2	14.94	14 28	16.00	28	21.14	18 47	16.00	45	25.38	15 51	16.00	12	31.74	13 29
14.60	46	11.06	19 39	12.56	2	15.07	12 51	13.78	28	21.31	18 51	16.00	46	25.52	17 57	14.60	12	31.74	14 55
14.42	46	11.15	19 32	16.00	3	15.10	11 35	16.00	30	21.68	18 01	16.00	47	25.83	14 32	16.00	12	31.79	14 41
16.00	46	11.22	12 51	14.51	3	15.21	11 51	16.00	30	21.69	14 10	16.00	47	25.91	13 38	15.55	12	31.81	19 15
10.89	47	11.31	19 57	15.38	3	15.26	17 29	16.00	30	21.77	15 41	13.01	48	26.03	18 30	15.27	12	31.85	15 14
16.00	48	11.49	14 13	10.79	4	15.31	10 10	16.00	30	21.81	13 40	16.00	48	26.07	18 02	15.44	13	32.06	10 24
15.00	49	11.83	19 52	15.27	4	15.44	14 40	15.38	31	21.86	14 31	15.66	48	26.09	12 14	14.70	13	32.07	15 58
15.81	50	11.96	13 44	15.66	4	15.46	10 00	16.00	31	21.96	16 59	15.27	49	26.37	18 35	15.00	15	32.49	16 03
13.55	50	12.11	12 39	12.79	5	15.61	19 00	14.23	31	21.98	10 06	16.00	50	26.50	11 45	15.66	15	32.52	16 15
16.00	50	12.13	15 56	16.00	5	15.74	11 40	15.81	31	21.99	12 09	15.27	50	26.53	17 48	12.16	15	32.67	10 04
15.49	52	12.44	12 46	14.23	7	16.05	19 24	15.81	32	22.12	15 19	14.23	50	26.54	16 08	14.37	16	32.68	14 06
13.24	52	12.47	10 56	14.95	7	16.16	16 01	15.00	32	22.30	15 39	16.00	51	26.67	14 33	9.05	16	32.76	16 32
16.00	52	12.58	15 56	15.49?	7	16.19	11 09	16.00	33	22.42	17 19	16.00	51	26.85	14 09	14.37	16	32.85	12 58
14.14	52	12.59	11 37	14.85	9	16.60	18 17	14.14	33	22.53	13 30	15.38	52	26.92	19 23	14.75	16	32.92	12 39
14.51	53	12.73	14 31	16.00	11	17.08	13 16	15.55	34	22.58	12 01	15.10	52	27.04	15 47	14.46	18	33.29	12 18
13.60	53	12.73	19 44	14.75	11	17.10	17 19	12.56	34	22.73	16 28	15.81	53	27.16	13 49	14.85	18	33.33	15 53

25 prec. + 69 sec. + 4′ 32″.

1101—1150				1151—1200				1201—1250				1251—1300				1301—1350			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.38	12 19	33.59	16 20	15.38	10 1	0.35	23 37	16.00	10 24	5.79	25 14	15.81	10 51	12.34	29 46	16.00	11 16	18.32	26 40
16.00	19	33.63	11 11	14.75	2	0.40	24 07	16.00	25	5.94	22 08	14.60	52	12.58	29 22	14.75	17	18.50	28 43
16.00	20	33.72	17 53	14.75	2	0.55	21 16	16.00	25	6.02	23 08	16.00	52	12.60	21 50	15.81	17	18.59	26 11
12.92	20	33.78	13 42	14.51	4	0.88	20 58	16.00	26	6.16	27 27	16.00	52	12.63	27 14	15.38	17	18.67	24 50
13.15	21	33.93	18 53	16.00	4	1.06	25 46	12.43	27	6.41	20 21	14.85	53	12.76	22 12	16.00	18	18.80	22 43
16.00	9 36	94.34	26 23	16.00	5	1.21	21 53	16.00	27	6.43	28 11	16.00	53	12.84	22 32	15.21	18	18.87	26 57
16.00	37	94.42	22 31	11.48	6	1.33	21 16	15.10	27	6.45	24 23	14.23	54	13.01	25 23	15.44	18	18.87	20 22
15.81	37	94.49	23 39	15.38	6	1.35	22 44	14.23	27	6.49	21 27	15.27	55	13.14	24 07	15.00	18	18.89	23 49
13.91	38	94.81	22 33	15.27	6	1.53	26 22	11.48	27	6.51	24 00	15.66	55	13.16	20 23	14.28	19	19.08	28 47
15.49	40	95.08	27 15	16.00	7	1.58	27 25	15.38	30	7.14	29 21	16.00	55	13.21	26 38	15.81	19	19.11	25 40
16.00	40	95.12	26 34	16.00	7	1.80	22 41	16.00	30	7.33	27 25	15.10	56	13.44	26 16	15.27	19	19.12	21 00
14.05	42	95.68	22 23	15.49	8	1.82	28 10	14.75	31	7.47	25 08	15.27	56	13.48	25 47	15.10	19	19.13	20 01
16.00	42	95.76	20 24	15.10	8	1.87	27 41	14.85	31	7.51	28 22	16.00	56	13.55	21 27	14.70	20	19.22	27 58
16.00	43	95.88	28 27	14.51	8	1.91	26 58	10.88	32	7.68	23 50	16.00	57	13.64	24 00	16.00	21	19.41	24 15
15.00	43	95.94	24 27	16.00	8	1.92	22 40	15.27	32	7.69	26 18	16.00	57	13.73	23 03	14.95	21	19.53	22 34
16.00	43	95.97	23 32	14.46	8	1.94	28 40	16.00	32	7.76	28 38	16.00	57	13.79	29 16	15.49	22	19.71	23 24
15.66	44	96.08	26 28	10.74	9	2.06	27 33	14.05	32	7.78	21 12	16.00	58	14.00	26 06	16.00	22	19.71	23 34
16.00	44	96.13	21 05	14.14	9	2.09	27 07	13.38	35	8.35	23 23	13.91	11 1	14.60	20 10	16.00	22	19.73	22 30
16.00	45	96.33	26 22	13.46	9	2.17	24 23	16.00	35	8.45	21 49	14.46	1	14.68	26 23	15.66	22	19.77	20 56
14.75	46	96.73	27 30	13.24	9	2.17	26 34	15.00	35	8.48	20 08	15.81	1	14.76	29 16	12.56	23	19.99	29 42
14.42	47	96.79	20 20	15.00	11	2.56	21 45	14.60	36	8.55	26 20	15.66	2	14.94	27 50	14.28	23	20.07	22 22
15.10	47	96.85	25 25	15.00	11	2.73	23 53	14.60	36	8.60	21 27	15.81	2	15.04	21 41	15.81	23	20.08	27 06
15.81	47	96.85	27 13	16.00	12	2.86	27 19	13.46	36	8.67	29 52	16.00	2	15.06	21 22	12.34	23	20.08	23 44
14.60	48	97.01	27 46	14.70	12	2.97	24 40	15.38	37	8.96	28 19	14.37	3	15.09	22 10	13.33	23	20.09	22 31
15.10	48	97.18	27 07	15.49	13	3.04	26 11	16.00	37	9.00	21 27	16.00	3	15.10	25 05	14.32	24	20.25	20 06
16.00	48	97.22	28 12	14.95	13	3.15	21 57	15.66	38	9.15	29 44	15.10	3	15.19	26 49	16.00	24	20.29	28 23
16.00	49	97.25	24 53	15.21	13	3.16	26 47	15.81	39	9.51	24 27	16.00	4	15.31	21 03	15.10	25	20.44	25 00
14.70	49	97.40	25 41	14.95	15	3.50	28 05	16.00	40	9.60	24 02	15.10	4	15.33	25 16	16.00	25	20.50	27 23
14.37	50	97.47	22 47	16.00	15	3.62	28 54	14.28	40	9.65	27 36	16.00	4	15.52	27 23	15.38	26	20.80	27 28
15.00	51	97.85	21 33	10.86	16	3.81	27 06	15.10	40	9.75	29 05	14.85	5	15.73	29 46	15.27	26	20.85	22 25
14.00	51	97.85	22 32	14.75	16	3.85	22 49	14.51	41	9.78	22 53	16.00	5	15.73	25 15	16.00	27	20.86	25 05
16.00	52	97.99	22 04	16.00	16	3.93	24 23	15.81	41	9.92	29 59	14.85	6	15.83	28 04	16.00	27	20.90	29 54
14.14	52	98.09	22 34	16.00	17	4.15	28 06	15.00	42	10.06	29 59	14.23	6	15.83	28 46	16.00	27	20.94	25 48
14.70	52	98.10	28 18	14.60	18	4.25	28 31	16.00	42	10.15	21 13	14.05	6	15.98	25 57	15.27	27	21.01	26 04
16.00	52	98.16	20 30	15.66	18	4.35	28 00	15.21	43	10.36	22 20	15.49	7	16.06	27 24	14.70	27	21.03	23 26
14.23	53	98.25	28 30	15.27	18	4.38	23 24	16.00	43	10.40	21 20	15.55	7	16.18	21 11	16.00	28	21.18	21 34
15.00	53	98.32	27 14	16.00	18	4.41	29 22	15.66	44	10.54	23 13	15.27	9	16.58	27 30	12.92	28	21.20	26 08
12.79	53	98.39	26 49	14.70	19	4.53	27 40	14.70	45	10.87	23 52	13.55	10	16.88	24 02	14.05	28	21.28	23 45
14.60	53	98.40	24 25	16.00	19	4.56	29 05	16.00	45	10.94	21 11	15.49	10	16.92	21 17	16.00	28	21.29	23 15
15.81	54	98.58	25 14	13.46	20	4.84	27 06	16.00	46	11.08	22 54	16.00	11	17.02	22 08	16.00	29	21.42	23 33
8.89*	54	98.63	23 43	16.00	20	4.85	28 56	15.27	47	11.24	23 08	11.90	11	17.02	22 33	15.66	29	21.45	25 01
15.10	55	98.78	22 07	15.55	20	4.85	24 34	15.10	47	11.27	28 33	15.00	11	17.15	26 54	15.81	29	21.51	26 11
16.00	55	98.90	21 33	16.00	21	4.96	24 06	16.00	47	11.29	28 42	14.46	11	17.19	26 24	15.00	30	21.59	22 34
16.00	56	99.10	22 06	15.55	21	5.00	28 41	16.00	48	11.51	21 10	16.00	12	17.32	28 58	12.92	30	21.71	25 13
15.66	58	99.54	21 10	15.27	21	5.15	27 53	15.10	48	11.58	27 58	16.00	13	17.65	24 03	16.00	30	21.71	24 39
12.12	58	99.63	25 41	15.81	22	5.18	26 45	15.00	48	11.60	25 05	14.70	13	17.65	26 10	13.91	32	22.06	29 43
14.70	59	99.75	20 00	16.00	22	5.27	29 28	15.81	49	11.84	25 58	13.60	14	17.71	22 13	14.51	32	22.07	28 37
16.00	59	99.87	21 36	15.81	22	5.35	21 42	16.00	50	12.03	20 48	12.79	14	17.82	24 42	14.85	32	22.20	23 32
16.00	10 0	0.02	26 00	15.55	23	5.46	24 10	16.00	50	12.17	22 37	15.38	14	17.86	24 27	14.75	32	22.21	28 12
16.00	1	0.23	26 15	8.88	24	5.66	23 53	14.14	51	12.29	26 37	13.37	14	17.88	26 47	14.14	32	22.28	22 22

20^{h} Area 88. $+15^{\circ}$

1351—1380				1381—1410				1411—1440				1441—1452							
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$				
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″				
16.00	11 33	22.35	26 59	14.85	11 48	25.99	20 39	16.00	11 58	28.38	21 21	14.85	12 15	32.57	28 22				
16.00	33	22.36	25 47	14.51	48	26.02	29 53	14.95	58	28.56	23 19	15.27	15	32.64	23 45				
14.75	33	22.45	24 06	16.00	48	26.03	22 24	16.00	59	28.57	20 47	15.38	16	32.66	28 27				
14.14	34	22.75	21 00	14.60	48	26.10	20 53	14.95	59	28.75	21 46	14.60	16	32.71	21 01				
16.00	35	22.80	20 23	13.91	49	26.16	23 05	15.66	12 0	28.84	24 50	15.81	16	32.72	21 46				
15.10	35	22.82	23 05	14.28	49	26.19	28 27	16.00	0	28.86	24 18	15.66?	16	32.73	24 50				
15.27	35	23.00	22 55	14.85	49	26.26	24 56	15.10	0	28.87	28 25	15.21	16	32.82	25 03				
14.85	36	23.22	20 30	15.10	49	26.28	25 08	13.78	0	28.88	25 17	15.55	17	33.05	26 55				
14.95	36	23.25	22 22	15.27	50	26.41	28 40	16.00	3	29.64	23 45	15.81	17	33.07	20 11				
16.00	37	23.40	24 36	16.00	50	26.60	22 03	14.14	4	29.84	21 34	12.12	18	33.34	29 15				
15.49	37	23.41	21 42	14.14	51	26.69	22 11	12.79	4	29.91	26 26	14.85	20	33.80	24 15				
12.25	37	23.49	20 26	16.00	51	26.76	23 30	16.00	5	30.04	20 51	15.00	20	33.84	29 26				
14.05	38	23.69	29 40	16.00	52	26.91	23 21	15.21	5	30.19	22 08								
16.00	38	23.70	24 23	16.00	52	26.96	20 31	14.60	6	30.30	27 46								
15.81	39	23.88	29 17	16.00	53	27.25	26 45	14.95	6	30.46	22 24								
15.27	40	23.98	21 29	13.82	54	27.38	28 05	15.21	7	30.58	21 03								
15.27	41	24.23	23 37	16.00	54	27.39	25 01	16.00	8	30.86	29 57								
15.10	41	24.32	21 32	15.60	54	27.41	20 12	14.70	8	30.94	22 02								
13.06	41	24.33	20 04	16.00	54	27.58	23 52	15.10	9	31.00	27 17								
16.00	41	24.38	23 44	14.60	54	27.59	23 01	14.70	9	31.16	25 51								
15.38	44	24.95	24 40	15.00	55	27.67	23 32	12.34	10	31.35	21 47								
14.95	44	25.07	27 41	16.00	55	27.79	25 12	16.00	11	31.57	23 48								
13.91	44	25.10	21 15	16.00	56	27.84	29 53	16.00	11	31.61	26 36								
14.95	44	25.11	22 04	16.00	56	27.94	25 05	14.51	11	31.61	29 13								
16.00	44	25.13	28 11	13.24	56	28.00	27 51	15.66	13	31.97	22 34								
14.60	45	25.31	21 53	15.81	57	28.09	27 11	11.08	13	32.07	24 28								
14.46	46	25.54	28 36	14.95	57	28.17	28 02	14.85	14	32.36	29 12								
15.27	46	25.58	21 32	14.14	57	28.27	28 39	15.27	14	32.39	25 14								
14.14	47	25.71	22 20	13.60	57	28.28	23 30	16.00	15	32.57	23 50								
15.81	47	25.86	25 05	15.49	58	28.38	24 55	13.46	15	32.57	24 50								

25 prec. + 69 sec. + 4′ 33″.

21^{h} Area 89. Centre for 1900: $21^{h}\ 8^{m} + 15^{\circ}\ 10'$. $+14^{\circ}$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.63	6 10	73.42	47 05	14.79	6 19	75.52	45 49	13.70	6 33	79.00	43 06	14.36	6 43	81.36	41 45	14.94	6 54	84.06	44 00
14.69	11	73.56	48 53	16.08	19	75.60	42 37	14.94	34	79.14	43 02	15.10	47	82.30	46 17	15.36	55	84.17	48 05
15.89	12	73.79	48 43	16.08	20	75.84	49 55	16.08	35	79.41	45 14	12.81	48	82.68	41 03	15.10	55	84.19	44 55
14.79	13	74.05	46 15	14.69	24	76.88	40 53	16.08	36	79.70	41 49	15.89	51	83.27	40 38	14.94	55	84.28	41 35
15.05	14	74.49	46 33	13.58	28	77.80	40 33	16.08	36	79.80	48 49	16.08	52	83.47	45 35	16.08	55	84.32	49 41
15.47	14	74.49	45 40	14.79	29	77.89	41 37	15.10	39	80.38	42 31	15.89	52	83.50	44 18	14.09	56	84.62	47 31
11.78	15	74.70	41 57	15.10	29	77.97	47 50	14.55	39	80.42	41 21	16.08	53	83.71	41 55	16.08	56	84.62	46 21
15.74	16	74.85	41 44	13 70	31	78.41	45 17	16.08	40	80.59	47 21	16.08	53	83.86	45 53	16.08	57	84.88	42 04
14.60	16	74.92	48 42	10.83	31	78.42	41 09	15.63	40	80.74	40 47	16.08	53	83.88	41 16	14.69	58	84.97	45 24
16.08	18	75.30	46 31	12.21	32	78.62	49 45	16.08	43	81.32	46 55	14.13	54	83.97	40 01	11.09	59	85.25	46 16

25 prec. + 71 sec. + 6′ 5″.

Area 89.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.74	7 0	85.47	42 52	15.31	7 42	95.55	45 50	16.08	8 35	8.36	44 17	14.94	9 25	20.47	43 12	14.69	6 10	73.46	58 47
14.36	1	85.71	46 46	14.36	42	95.63	45 48	13.00	36	8.61	41 21	15.31	28	21.19	44 59	14.22	11	73.68	56 52
13.00	2	86.07	45 49	16.08	42	95.68	47 27	14.00	36	8.69	43 01	14.69	28	21.32	42 31	14.94	12	74.01	50 48
16.08	3	86.31	49 24	16.08	45	96.26	42 12	15.74	36	8.74	45 36	14.69	29	21.44	44 14	13.00	14	74.46	55 31
15.05	4	86.44	45 37	15.20	46	96.60	43 33	12.45	38	9.09	48 16	15.10	29	21.54	49 48	16.08	15	74.69	58 07
15.36	4	86.54	46 38	15.74	46	96.67	46 54	15.58	39	9.39	44 12	16.08	29	21.63	49 06	15.74	18	75.41	51 55
16.08	4	86.58	44 30	15.36	50	97.64	42 27	15.31	39	9.40	42 34	15.10	32	22.30	42 41	16.08	23	76.58	55 19
15.36	5	86.66	44 57	14.84	51	97.72	40 14	16.08	39	9.41	41 30	14.84	32	22.34	44 48	16.08	23	76.62	59 34
15.31	5	86.71	44 07	15.74	52	98.11	44 20	14.84	40	9.58	45 43	15.89	35	22.88	49 22	15.10	25	76.99	50 45
16.08	5	86.79	42 15	16.08	53	98.35	41 57	12.11	40	9.78	45 38	16.08	37	23.46	45 29	15.63	25	77.00	55 02
15.31?	6	86.91	47 06	15.36	54	98.49	42 30	16.08	41	9.85	43 05	14.79	39	23.91	47 47	14.45	26	77.25	53 11
15.58	7	87.08	46 27	16.08	55	98.74	45 12	13.38	41	9.99	49 39	16.08	39	23.94	41 05	15.58	28	77.67	51 40
15.10	8	87.40	42 33	16.08	55	98.84	45 06	14.94	46	11.12	49 22	13.66	40	24.14	48 12	15.36	31	78.48	53 54
16.08	9	87.76	42 35	15.10	55	98.87	48 18	15.47	48	11.56	40 43	14.22	40	24.14	40 59	16.08	32	78.72	58 16
15.47	11	88.18	41 04	16.08	55	98.89	41 04	15.89	48	11.57	47 58	14.55	41	24.44	41 38	16.08	32	78.83	53 08
14.84	11	88.22	45 46	15.89	57	99.31	42 14	14.45	48	11.61	48 56	14.94	42	24.65	47 44	15.31	33	78.93	56 36
15.20	11	88.26	41 48	14.60	58	99.55	40 45	15.05	48	11.63	49 15	16.08	42	24.78	43 43	14.89	33	79.02	50 16
16.08	12	88.30	42 04	15.63	8 0	0.01	44 25	14.79	48	11.71	41 46	14.09	43	24.82	47 13	13.91	35	79.36	58 06
15.58	12	88.52	40 55	15.58	0	0.02	47 08	15.10	52	12.62	45 47	14.45	46	25.53	47 28	15.63	35	79.53	55 16
14.60	13	88.56	47 50	14.69	1	0.18	42 52	15.10	53	12.89	40 14	14.84	48	26.13	46 46	15.36	37	79.88	56 34
14.69	14	88.81	45 55	11.78	2	0.52	41 19	15.74	56	13.62	43 19	15.47	51	26.83	44 11	15.20	37	80.01	56 46
16.08	14	88.82	44 11	16.08	3	0.82	45 24	14.60	57	13.80	40 27	14.79	52	27.15	43 26	14.84	38	80.23	52 03
16.08	15	89.15	49 22	16.08	5	1.24	48 21	15.05	59	14.39	44 33	15.05	53	27.33	47 31	14.31	39	80.39	57 19
14.79	16	89.43	45 46	13.78	6	1.34	45 44	16.08	9 0	14.63	45 03	14.55	56	28.13	40 56	15.20	49	82.88	55 43
15.89	16	89.44	41 33	16.08	6	1.37	41 57	14.31	1	14.65	47 51	14.79	58	28.56	44 43	14.60	50	83.07	59 01
15.31	17	89.55	40 46	13.19	8	1.83	48 32	16.08	1	14.72	43 29	16.08	10 0	28.91	47 13	14.79	51	83.42	52 07
15.58	19	90.01	49 03	14.31	9	2.15	43 18	12.63	1	14.84	48 46	15.89	0	28.94	40 33	15.05	52	83.68	52 43
12.11	19	90.05	46 25	15.47	10	2.49	46 42	15.10	3	15.13	49 34	15.89	0	29.08	41 42	16.08	53	83.78	57 01
15.58	19	90.20	42 34	14.22	10	2.51	45 45	15.74	3	15.16	44 41	16.08	0	29.12	47 54	13.70	54	84.01	55 31
15.31	21	90.46	45 37	16.08	11	2.61	45 21	14.09	4	15.44	42 44	12.63	3	29.65	46 27	14.84	55	84.41	50 49
15.31	21	90.55	41 05	14.69	11	2.74	45 05	13.00	5	15.64	49 01	14.31	3	29.65	46 51	16.08	56	84.56	55 47
16.08	21	90.60	46 13	13.91	11	2.77	46 16	16.08	8	16.55	46 39	15.89	3	29.70	47 23	14.45	58	85.11	59 46
11.95	22	90.70	47 47	13.00	13	3.20	40 48	14.60	9	16.57	44 35	16.08	3	29.82	43 13	13.70	58	85.13	50 20
16.08	22	90.88	49 33	14.69	16	3.76	42 59	14.22	9	16.63	40 31	15.36	4	29.86	40 57	13.30	59	85.23	57 58
13.58	24	91.34	40 22	14.69	17	4.05	46 07	15.10	9	16.66	46 28	15.10	4	30.02	47 00	15.89	7 0	85.47	58 14
15.31	25	91.53	45 10	15.36	18	4.39	46 04	15.10	10	16.86	49 20	16.08	5	30.30	48 07	15.47	1	85.69	59 30
15.89	26	91.81	41 42	15.89	18	4.40	48 22	15.89	10	16.94	45 22	16.08	6	30.40	47 52	15.31	4	86.37	57 00
13.91	27	92.01	40 45	16.08	19	4.50	43 19	14.45	10	16.98	41 12	16.08	6	30.43	47 14	13.91	4	86.58	56 25
13.27	28	92.20	47 59	15.47	20	4.82	44 45	13.91	11	17.09	49 21	13.66	7	30.64	43 01	14.13	5	86.63	57 04
15.47	28	92.29	47 20	11.62	23	5.47	40 40	16.08	11	17.12	40 00	16.08	8	30.92	49 05	16.08	6	86.85	55 34
11.62	28	92.38	47 58	14.60	23	5.52	48 25	14.00	12	17.49	48 05	14.94	8	31.05	42 29	15.10	9	87.67	51 40
16.08	30	92.83	42 29	15.36	24	5.90	48 07	16.08	14	18.00	45 23	13.00	9	31.28	41 46	16.08	9	87.73	50 26
15.89	33	93.49	48 06	15.47	26	6.38	42 41	13.30	18	18.82	46 02	13.66	10	31.32	40 21	15.74	11	88.26	54 30
16.08	36	94.27	40 39	13.11	26	6.38	40 16	15.05	18	18.85	44 00	15.20	11	31.60	46 18	15.10	12	88.49	55 15
16.08	37	94.44	49 43	15.74	27	6.45	47 44	11.78	19	19.04	41 34	14.69	12	31.82	46 27	16.08	13	88.76	59 35
14.22	37	94.54	48 20	15.20	28	6.77	42 11	16.08	20	19.32	43 33	16.08	13	32.10	45 37	15.10	14	88.84	59 43
15.89	38	94.72	46 57	16.08	30	7.16	40 14	16.08	22	19.75	40 13	16.08	13	32.21	46 08	15.36	14	88.98	55 29
14.79	38	94.78	46 54	15.89	30	7.20	48 05	15.58	23	20.06	44 24	15.47	15	32.68	49 01	15.89	15	89.13	58 59
14.45	40	95.24	48 43	11.78	30	7.32	42 03	14.00	24	20.25	45 07	14.55	15	32.68	45 26	16.08	16	89.39	58 59
12.81	41	95.43	47 06	16.08	33	7.98	45 52	14.94	24	20.25	46 48	14.79	6 9	73.27	50 20	15.31	20	90.36	50 04

25 prec. + 71 sec. + 6′ 7″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	α	x	y+70′	Int. magn.	α	x	y+70′	Int. magn	α	x	y+70′ y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.10	7 25	91.47	50 41	14.45 :	8 24	5.87	53 02	15.36	9 22	19.77	54 14	16.08	6 14	74.38	9 52	15.20	6 48	82.57	5 04
14.89	26	91.72	59 36	14.36	24	5.91	55 39	15.31	23	19.97	57 17	9.36*	14	74.46	2 56	16.08	49	82.79	6 24
15.20	28	92.28	54 47	15.89	26	6.27	50 09	15.47	26	20.67	56 07	16.08	15	74.58	8 50	15.74	51	83.25	2 32
15.52	29	92.60	50 40	15.20	27	6.53	56 13	14.09	26	20.85	55 25	15.10	15	74.65	5 17	14.94	52	83.57	8 23
15.36	31	93.07	51 56	16.08	27	6.63	56 10	13.58	28	21.29	50 10	14.36	16	74.85	0 39	13.19	52	83.65	0 10
15.20	35	94.06	56 50	15.31	33	7.86	58 14	14.31	28	21.30	52 40	15.05	17	75.09	6 52	14.84	52	83.69	5 47
14.84	36	94.17	57 39	15.36	33	8.00	50 52	16.08	30	21.74	51 42	14.09	17	75.12	9 15	14.13	55	84.27	8 25
15.47	36	94.23	52 06	14.79	35	8.46	58 23	15.20	30	21.83	58 26	13.11	18	75.35	3 10	14.64	55	84.41	0 06
15.10	38	94.60	53 02	14.94	36	8.69	57 28	13.70	31	22.08	52 38	10.90	18	75.37	2 55	15.74	57	84.72	2 23
16.08	38	94.64	52 47	11.62	36	8.77	55 20	14.84	32	22.23	58 26	13.91	19	75.62	7 41	15.74	58	85.03	5 22
15.47	39	95.01	51 16	16.08	36	8.79	59 09	11.62	34	22.62	58 45	15.05	19	75.70	8 10	14.69	58	85.11	5 04
14.79	41	95.44	56 19	14.69	38	9.19	52 56	14.09	34	22.83	51 13	15.31	20	75.77	8 57	15.74	58	85.14	7 21
16.08	41	95.48	59 02	15.36	38	9.21	52 42	15.47	35	23.00	59 58	13.38	20	75.84	8 01	15.58	58	85.15	2 43
16.08	43	95.98	57 12	15.52	38	9.24	50 21	15.89	36	23.08	59 11	16.08	21	76.01	2 27	15.20	59	85.20	3 04
15.05	46	96.66	51 41	14.31	39	9.39	56 51	13.70	38	23.70	51 00	16.08	21	76.17	3 23	15.20	7 0	85.41	8 20
15.31	47	96.78	52 20	16.08	39	9.41	58 26	13.87	38	23.74	51 56	11.27	23	76.55	9 24	15.36	3	86.16	0 46
16.08	47	96.80	55 07	15.47	40	9.75	59 21	15.31	40	24.14	51 12	14.94	24	76.75	7 10	14.79	4	86.60	2 46
15.10	49	97.33	58 38	14.84	42	10.11	53 23	15.42	41	24.43	50 05	14.00	24	76.92	4 03	16.08	5	86.73	6 10
13.66	51	97.78	52 37	15.31	43	10.36	59 21	16.08	41	24.43	52 38	14.69	25	76.99	5 02	15.47	5	86.81	5 56
13.00	52	98.01	58 11	16.08	44	10.62	51 03	15.36×	42	24.56	53 58	14.45	26	77.26	8 11	16.08	9	87.60	6 40
15.74	56	98.92	57 58	16.08	44	10.71	58 39	13.38	44	25.01	59 18	15.10	26	77.27	0 34	15.31	10	88.01	3 34
15.31	56	99.09	54 32	16.08	46	11.12	57 36	15.20	44	25.16	52 20	12.28	26	77.38	4 27	14.55	11	88.22	6 52
15.89	57	99.18	53 30	15.20	48	11.53	55 31	14.50	44	25.18	59 36	14.94	27	77.47	4 53	13.38	12	88.30	7 09
15.20	57	99.37	58 44	15.10	48	11.61	54 03	14.55	46	25.52	59 30	14.00	27	77.47	6 49	15.63	13	88.60	4 10
10.45	58	99.41	56 20	16.08	50	12.04	58 42	14.45	47	25.85	54 38	15.89	27	77.51	2 02	14.79	13	88.69	9 12
14.55	58	99.52	59 00	15.63	50	12.13	50 49	15.31	49	26.32	58 21	15.58	27	77.54	2 37	14.60	14	88.79	1 24
14.22	59	99.69	51 42	16.08	50	12.16	51 19	12.11	50	26.65	52 38	15.58	28	77.74	6 55	15.31	14	88.97	0 17
13.87	59	99.72	52 32	15.36	52	12.55	57 25	13.66	53	27.40	56 13	15.10	28	77.91	6 16	15.31	16	89.43	6 20
15.10	59	99.85	51 58	16.08	52	12.66	57 12	15.36	53	27.41	58 03	13.78	29	77.94	6 29	14.45	17	89.73	3 10
15.89	8 1	0.21	50 11	15.89	53	12.88	54 02	15.74	54	27.65	57 29	13.70	30	78.34	3 44	15.89	18	89.78	1 39
16.08	2	0.51	55 30	14.55	53	12.91	53 26	15.31	56	28.01	54 59	14.84	31	78.44	9 30	15.89	18	89.82	6 22
15.89	3	0.71	53 17	14.45	54	13.03	52 34	15.36	58	28.60	59 35	15.74	34	79.14	0 30	15.63	19	90.08	8 33
15.47	4	0.88	55 34	14.60	54	13.05	53 44	11.62	10 0	28.92	53 54	16.08	34	79.33	3 53	15.58	19	90.15	6 20
15.47	5	1.15	52 09	15.58	55	13.24	52 33	15.74	0	28.99	56 18	15.47	34	79.36	2 18	14.79	21	90.63	4 12
14.69	7	1.60	58 48	15.31	55	13.37	58 58	15.05	1	29.30	57 16	15.47	35	79.43	7 23	16.08	23	90.98	4 15
15.36	7	1.71	58 13	15.89	56	13.48	55 14	15.31	4	29.93	57 27	11.62	36	79.75	8 54	14.79	26	91.69	3 24
14.94	8	1.93	56 23	14.94	57	13.78	50 38	15.20	4	29.97	59 00	14.94	37	79.93	6 17	13.70	27	92.00	5 54
14.36	8	2.04	50 55	11.02	9 3	15.20	50 34	15.74	5	30.09	58 46	13.00	37	79.93	9 10	14.09	27	92.08	6 58
14.79	11	2.59	53 32	15.05	4	15.55	51 51	14.00	6	30.41	56 14	16.08	38	80.21	2 54	15.63	28	92.35	9 53
13.38	11	2.64	56 14	14.31	6	16.05	53 12	15.31	8	30.88	52 43	15.05	38	80.28	2 38	15.89	28	92.40	7 54
15.36	12	2.88	57 58	14.00	8	16.53	54 32	14.31	8	30.94	59 54	13.66	39	80.37	0 16	16.08	29	92.52	5 32
14.94	12	2.89	52 26	14.79	9	16.74	50 57	10.37	9	31.21	59 13	14.69	39	80.37	8 04	16.08	30	92.72	8 16
15.58	13	3.13	56 38	13.70	10	16.89	59 36	15.63	9	31.24	57 30	14.94	39	80.41	5 23	16.08	34	93.69	6 50
16.08	16	3.91	58 03	14.45	11	17.13	52 31	14.79	10	31.39	55 55	13.30	40	80.70	8 06	16.08	35	93.87	1 00
15.89	17	4.02	51 00	16.08	12	17.32	59 01	14.31	11	31.60	58 03	14.31	42	81.12	2 09	14.69	35	94.02	3 53
11.28	18	4.28	59 52	15.10	15	18.08	56 36	14.36	12	31.98	56 02	15.05	42	81.15	3 55	14.94	36	94.27	6 03
14.64	21	5.10	50 40	13.00	16	18.27	53 30	15.52	15	32.56	50 15	16.08	42	81.25	1 13	14.79	37	94.53	6 49
16.08	22	5.32	55 13	15.47	17	18.51	55 15	15.36	6 10	73.51	5 50	15.20	43	81.39	5 58	14.69	39	94.83	7 11
16.08	23	5.67	53 01	15.47	20	19.39	59 16	16.08	11	73.63	9 30	15.20	44	81.67	6 57	16.08	40	95.22	6 22
15.05	24	5.73	52 21	14.94	20	19.45	51 18	14.84	12	73.97	1 22	14.00	45	81.84	7 09	16.08	41	95.50	9 40

25 prec. + 71 sec. + 6′ 7″.

551—600				601—650				651—700				701—750				751—800			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.08	7 42	95.62	9 58	16.08	8 36	8.75	7 56	15.58	9 23	20.02	0 55	15.36	6 17	75.11	12 08	11.62	7 11	88.11	10 26
14.55	43	96.01	8 05	16.08	37	8.84	6 31	15.89	23	20.10	2 23	11.46	17	75.21	17 03	15.63	12	88.32	11 02
16.08	44	96.23	0 35	14.84	37	8.99	1 16	14.94	24	20.38	2 18	15.89	18	75.38	15 09	15.20	12	88.34	18 59
16.08	45	96.49	0 05	15.47	38	9.26	8 46	13.38	28	21.13	1 37	14.60	19	75.54	13 20	14.60	12	88.54	19 36
13.30	46	96.56	2 05	14.31	39	9.31	6 32	15.00	28	21.15	0 34	14.04	20	75.83	19 30	14.69	13	88.60	17 07
14.79	46	96.64	5 13	16.08	39	9.34	3 28	16.08	29	21.51	3 58	16.08	22	76.36	19 23	15.05?	19	90.04	17 59
16.08	47	96.75	4 26	15.58	39	9.51	8 50	10.30	30	21.72	8 16	14.22	22	76.42	10 28	15.10	22	90.72	10 11
15.05	49	97.25	8 40	14.94	40	9.57	4 42	13.00	33	22.41	5 40	13.19	24	76.75	19 26	10.03	22	90.91	12 04
11.62	51	97.82	9 32	16.08	40	9.59	2 57	15.89	34	22.60	8 01	14.00	24	76.91	10 58	15.05	22	90.92	11 18
14.84	51	97.82	8 32	15.31	40	9.63	2 49	15.10	35	22.83	8 11	14.45	24	76.92	14 14	14.55	23	91.10	14 16
15.74	51	97.94	8 27	10.42	41	9.80	6 41	15.63	35	22.87	6 39	13.46	25	77.15	15 47	14.36	26	91.80	15 35
16.08	52	98.16	7 44	14.31 :	41	9.83	8 45	16.08	36	23.06	1 57	14.79	30	78.23	10 21	14.36	27	92.09	16 47
15.74	53	98.36	5 45	15.74	44	10.51	7 22	15.74	37	23.38	7 27	14.31	30	78.41	15 00	15.58	29	92.44	18 05
15.31	54	98.46	7 23	13.19	44	10.54	8 17	14.27	38	23.77	0 14	16.08	31	78.57	10 57	15.47	30	92.74	16 19
15.05	54	98.49	8 39	16.08	44	10.71	6 01	16.08	44	25.22	6 11	15.36	34	79.28	17 00	15.05	31	92.97	19 03
14.79	56	99.14	4 41	14.55	45	10.89	4 06	13.30	46	25.48	7 20	15.05	34	79.31	10 52	13.27	33	93.58	13 36
14.36	57	99.18	4 33	15.31	49	11.83	7 56	15.74	46	25.62	1 43	14.22	34	79.35	10 10	15.36	37	94.34	10 14
15.20	57	99.24	8 08	14.69	50	12.10	7 01	15.31	46	25.68	9 30	13.87	35	79.41	15 40	14.60	37	94.43	19 58
16.08	58	99.54	8 46	16.08	50	12.16	0 01	15.74	48	26.00	5 40	15.74	35	79.47	14 22	14.31	37	94.45	18 10
15.10	8 0	99.90	0 24	16.08	51	12.24	8 08	15.74	49	26.32	1 14	11.20	35	79.57	12 38	15.31	38	94.71	15 36
16.08	0	99.98	1 46	15.89	51	12.42	5 01	16.08	49	26.32	6 25	13.00	36	79.66	18 29	15.63	38	94.77	16 57
13.00	1	0.18	3 46	15.89	52	12.43	6 35	16.08	49	26.35	7 24	15.74	37	79.87	19 49	15.89	38	94.82	10 43
15.05	1	0.28	2 40	12.45	52	12.60	4 07	12.28	50	26.48	4 18	14.60	37	79.94	17 10	14.94	41	95.46	19 47
16.08	1	0.29	8 26	16.08	54	13.06	9 50	16.08	50	26.51	2 22	15.63	37	80.00	14 47	15.47	41	95.48	13 52
16.08	6	1.51	4 37	16.08	55	13.23	3 05	14.55	50	26.58	5 11	14.22	39	80.45	12 45	15.20	42	95.58	17 05
15.63	7	1.58	7 23	16.08	57	13.66	7 59	14.31	52	27.15	5 33	15.05	41	80.90	15 01	15.89	44	96.11	16 55
14.36	7	1.80	1 07	15.74	57	13.73	3 07	14.94	54	27.51	6 49	16.08	43	81.53	10 54	16.08	46	96.61	19 17
15.58	10	2.37	7 13	15.89	57	13.80	8 46	16.08	55	27.86	8 39	15.47	45	81.80	11 51	15.20	46	96.71	17 39
15.10	11	2.67	1 54	15.31	57	13.81	5 22	14.45	56	28.03	2 10	16.08	46	82.06	19 23	15.36	47	96.78	13 23
16.08	13	3.23	5 15	14.84	58	14.01	6 49	14.60	57	28.23	4 14	15.36	46	82.17	17 42	15.89	50	97.51	15 52
16.08	15	3.53	6 18	14.09	59	14.22	8 33	16.08	58	28.57	2 57	16.08	48	82.60	18 56	15.47	50	97.63	10 32
14.60	15	3.64	0 08	16.08	59	14.31	8 20	14.45	10 0	28.88	8 16	14.45	49	82.86	11 39	15.89	51	97.90	18 54
12.96	17	4.08	0 12	16.08	9 3	15.24	9 48	14.45	1	29.19	6 22	14.36	50	83.00	13 00	10.59	52	98.09	15 00
14.79	18	4.34	5 57	15.31	3	15.26	0 40	13.30	2	29.51	3 39	16.08	50	83.09	19 20	13.87	53	98.41	11 03
16.08	19	4.51	8 11	14.60	4	15.33	5 00	16.08	2	29.54	7 56	16.08	53	83.87	18 53	11.14	57	99.23	15 43
16.08	20	4.89	3 10	16.08	4	15.39	0 27	15.74	3	29.79	4 07	14.69	55	84.22	18 18	15.58	59	99.84	18 04
15.63	21	5.15	5 17	15.31	4	15.57	3 31	14.36	5	30.18	7 47	13.87	55	84.44	11 52	11.46	8 0	0.04	12 37
15.36	23	5.55	2 53	15.20	5	15.70	0 24	12.11	7	30.70	1 24	16.08	56	84.45	14 46	14.36	9	2.16	10 21
16.08	23	5.59	8 17	15.31	6	15.95	0 56	14.79	9	31.06	3 33	15.31	57	84.84	19 18	14.84?	9	2.21	19 25
14.55	23	5.60	6 47	14.94	6	16.05	7 12	15.20	13	31.99	6 52	15.74	7 0	85.56	15 04	8.22*	11	2.68	10 39
14.55	25	5.99	1 31	15.25	9	16.60	0 25	16.08	13	32.13	4 02	15.20	1	85.66	12 42	15.63	12	2.82	13 46
13.50	27	6.56	5 20	15.63	9	16.70	9 07	15.63	13	32.20	4 23	13.50	2	86.05	13 40	15.63	12	2.82	14 11
13.66	29	7.11	7 05	16.08	10	16.83	3 11	14.69	14	32.38	0 06	15.10	2	86.13	19 04	16.08	12	2.93	18 13
14.60	30	7.25	8 07	13.30	12	17.41	2 11	16.08	15	32.66	4 02	16.08	7	87.11	14 47	15.10×	14	3.42	17 23
15.47	30	7.36	5 58	13.91	14	17.74	6 13	14.22	15	32.69	1 35	15.31	7	87.16	15 36	15.10	19	4.55	14 21
16.08	31	7.47	1 31	14.79	17	18.54	1 56	15.36	16	32.91	9 11	14.79?	7	87.24	19 17	16.08	21	4.99	15 21
15.58	32	7.81	9 28	14.69	17	18.63	6 31	13.91	17	32.96	4 11	14.94?	8	87.43	14 07	15.20	22	5.18	14 11
16.08	33	7.94	1 05	16.08	20	19.34	1 01	15.89	6 10	73.59	15 56	14.41	9	87.62	10 10	16.08	22	5.25	19 08
15.74	33	7.95	7 48	15.20	22	19.83	5 02	11.09	11	73.72	12 56	16.08	9	87.63	14 04	15.05	24	5.68	12 33
16.08	34	8.11	1 14	14.13	23	19.95	3 23	14.00	13	74.23	17 30	14.79	9	87.64	14 14	15.05	24	5.78	16 49

25 prec. + 71 sec. + 6′ 7″.

801—850				851—900				901—950				951—1000				1001—1050			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.78	8 25	5.95	10 50	16.08	9 19	19.11	13 15	15.20	6 12	73.95	26 26	15.89	7 4	86.49	24 31	16.08	8 12	2.93	25 09
12.45	26	6.26	16 40	14.22	19	19.11	16 34	12.63	14	74.57	23 05	13.38	4	86.57	21 54	16.08	13	3.09	27 49
14.22	27	6.58	18 48	15.63	20	19.34	19 25	15.20	15	74.68	26 10	15.63	10	88.01	22 59	16.08	13	3.12	27 35
16.08	29	6.96	15 38	13.27	22	19.82	14 17	13.00	15	74.81	23 45	15.20	11	88.08	22 07	12.63	13	3.19	21 43
14.84	31	7.59	19 30	14.79	26	20.74	16 35	14.00	17	75.19	23 56	16.08	11	88.24	26 50	16.08	14	3.29	25 15
14.84	35	8.52	13 01	14.55	27	21.04	18 47	15.05	18	75.38	20 39	14.22	12	88.31	23 25	15.31	15	3.58	24 15
16.08	36	8.73	18 29	15.31	27	21.08	13 52	15.10	19	75.70	21 50	15.74	12	88.43	29 52	15.00	17	4.20	20 22
12.45	39	9.34	13 02	15.36	28	21.13	11 12	14.84	21	76.10	26 23	15.47	13	88.73	24 11	15.20	17	4.21	21 06
15.36	39	9.37	15 24	11.78	31	21.93	18 34	16.08	23	76.66	22 52	10.56	17	89.61	29 40	14.84	20	4.73	25 51
15.05	40	9.72	13 35	15.31	31	22.06	13 30	16.08	26	77.28	24 40	16.08	18	89.95	20 14	15.15	20	4.87	29 38
16.08	43	10.29	10 29	14.60	33	22.47	17 48	9.58	28	77.78	28 15	15.58	20	90.37	29 18	15.36	21	4.97	23 04
14.13	43	10.32	19 06	16.08	34	22.74	16 19	15.89	28	77.80	24 30	16.08	20	90.41	21 57	13.19	22	5.18	26 08
10.46	43	10.32	13 55	13.30	36	23.13	10 48	14.69	29	78.04	28 54	16.08	21	90.50	23 31	13.66	22	5.23	27 17
15.58	43	10.40	17 20	14.89	36	23.26	19 42	15.74	29	78.10	24 08	13.27	21	90.70	25 50	15.47	22	5.31	22 24
13.46	44	10.55	16 55	16.08	38	23.56	15 56	14.13	29	78.13	20 14	15.31	21	90.71	20 45	13.11	22	5.41	20 40
15.05	45	10.87	12 28	15.63?	38	23.66	13 27	14.79	30	78.26	25 24	12.74	23	91.10	21 32	15.20	23	5.50	29 10
15.74	49	11.89	17 39	15.10	39	23.92	11 39	13.38	31	78.53	24 54	16.08	24	91.21	20 52	15.47	26	6.25	26 57
12.63	50	11.94	18 48	16.08	40	24.02	19 07	14.69	32	78.91	21 11	12.81	24	91.33	27 43	16.08	27	6.41	26 06
15.31	50	11.95	11 39	16.08	45	25.31	14 38	15.74	33	79.01	22 30	13.58	24	91.41	20 06	13.11	30	7.20	28 48
15.63	50	12.00	17 48	16.08	46	25.58	12 01	14.69	33	79.14	22 23	16.08	27	92.01	20 52	16.08	33	7.91	25 47
15.58	51	12.26	16 31	13.50	47	25.77	18 54	14.60	34	79.23	22 29	15.63	31	93.07	26 49	13.50	33	7.91	29 12
16.08	52	12.51	18 18	14.84	48	25.99	10 04	14.60	36	79.76	22 39	12.63	31	93.09	25 50	13.19	33	7.98	21 56
14.55	52	12.56	16 04	13.91	49	26.37	18 21	14.45	36	79.87	22 40	16.08	34	93.69	24 07	16.08	35	8.47	29 36
15.89	54	12.94	13 44	15.10	50	26.41	12 53	14.94	37	79.94	22 23	14.27	36	94.25	20 28	12.81	36	8.58	28 08
16.08	54	12.96	18 41	16.08	50	26.41	14 04	15.47	37	80.06	25 19	16.08	38	94.69	24 10	15.74	36	8.71	25 46
12.81	54	13.04	11 07	15.58	51	26.70	18 30	16.08	38	80.18	22 15	15.89	41	95.49	24 27	15.74	37	8.83	29 07
15.58	54	13.10	12 24	15.89	55	27.69	17 12	15.20	41	80.92	21 59	14.69	42	95.60	20 35	14.79	37	8.92	20 17
14.22	56	13.46	18 12	16.08	55	27.83	16 38	14.55	42	81.23	27 33	15.36	44	96.02	20 33	16.08	38	9.07	25 06
14.69	57	13.69	18 56	16.08	56	27.99	19 51	14.69	44	81.77	22 01	15.89	45	96.28	28 14	14.79	41	9.88	22 58
14.84	57	13.80	18 46	16.08	56	28.06	15 41	15.31	45	81.92	24 28	15.89	45	96.40	26 56	12.45	47	11.36	21 57
16.08	9 1	14.82	10 11	14.94	57	28.19	14 46	16.08	45	81.99	26 36	15.63	45	96.47	27 07	13.78	48	11.54	22 59
15.58	2	14.90	14 56	16.08	58	28.45	16 36	15.10	45	82.04	28 40	14.60	45	96.49	23 38	14.36	49	11.83	28 33
12.81	2	14.96	13 07	15.63	58	28.53	17 46	15.74	48	82.71	28 51	16.08	47	96.80	21 38	15.36	49	11.88	28 54
13.58	4	15.34	15 03	16.08	10 2	29.30	12 49	15.36	51	83.31	28 32	13.19	48	97.11	23 29	14.84	51	12.25	25 45
16.08	6	15.97	10 55	16.08	4	29.80	17 48	15.20	51	83.43	23 48	15.74	50	97.61	20 40	16.08	53	12.84	22 17
16.08	7	16.05	17 01	14.69	4	30.03	16 09	15.58	54	84.10	27 36	12.28	52	98.01	27 00	12.63	55	13.16	20 56
16.08	7	16.12	17 29	11.46	5	30.05	16 19	14.45	54	84.11	21 51	15.89	52	98.11	20 51	11.27	55	13.16	25 57
13.00	7	16.25	13 17	15.36	5	30.16	15 35	16.08	56	84.53	21 31	14.55	53	98.22	20 31	14.69	55	13.33	28 13
15.20	8	16.35	15 35	13.78	7	30.70	17 26	13.00	57	84.71	29 18	16.08	57	99.32	28 58	15.47	56	13.55	26 39
15.10	8	16.45	19 38	15.47	9	31.15	14 20	15.31	57	84.74	25 23	14.94	58	99.51	25 19	15.89	56	13.59	21 59
14.94	10	16.94	15 09	14.84	10	31.38	17 30	16.08	7 0	85.45	25 58	13.19	58	99.59	20 37	15.63	58	14.10	29 46
13.58	12	17.34	15 12	14.36	10	31.40	14 53	15.89	0	85.47	24 17	15.89	59	99.70	28 26	15.58	59	14.26	26 59
15.10	12	17.43	18 49	13.91	12	31.80	16 45	15.36	0	85.54	23 57	16.08	8 0	99.93	28 44	13.87	9 0	14.39	21 40
16.08	13	17.51	12 11	16.08	12	31.89	11 41	13.11	1	85.72	25 14	16.08	1	0.21	27 01	13.46	0	14.54	25 59
14.22	13	17.72	11 40	14.94	15	32.46	14 04	14.45	1	85.79	29 39	13.11	1	0.33	23 25	14.79	2	15.01	29 22
13.66	15	18.01	10 53	14.13	16	32.87	12 56	15.36	2	85.93	23 28	15.36	5	1.15	21 11	16.08	7	16.15	24 46
16.08	15	18.14	14 07	13.38	17	32.96	11 49	15.36	2	86.14	25 47	14.84	7	1.77	24 38	14.00	8	16.49	27 00
15.63	16	18.24	14 32	13.78	6 10	73.37	28 53	15.31	2	86.14	27 03	16.08	8	2.05	27 07	16.08	10	16.83	26 44
14.94	16	18.45	14 01	16.08	10	73.53	21 20	14.94	3	86.19	20 40	13.11	9	2.12	26 29	15.20	11	17.04	20 29
15.52	17	18.46	10 02	15.05	11	73.79	21 50	14.84	3	86.21	24 57	16.08	12	2.87	29 21	16.08	11	17.14	22 29

25 prec. + 71 sec. + 6′ 7″.

1051—1100				1101—1150				1151—1200				1201—1250				1251—1300			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.08	9 13	17.50	24 42	14.69	10 2	29.36	27 06	15.10	6 57	84.92	32 37	16.08	7 59	99.83	36 05	15.89	8 50	12.01	37 43
15.10	13	17.70	24 30	15.31	9	31.20	23 48	15.36	58	85.03	31 09	13.00	59	99.84	32 50	14.45	51	12.31	35 10
16.08	14	17.94	20 25	15.36	10	31.25	23 54	15.63	59	85.26	36 29	15.47	8 1	0.30	35 08	13.58	52	12.44	35 01
12.63	15	18.08	29 56	15.36	10	31.37	23 23	11.95	59	85.33	32 33	11.62	2	0.48	32 35	14.09	52	12.51	38 04
15.31	16	18.27	21 45	15.89	10	31.38	22 06	15.10	7 0	85.43	34 28	11.20	3	0.67	36 55	15.89	53	12.68	34 32
13.66	19	18.94	21 55	15.69	11	31.53	20 18	15.20	0	85.53	31 06	15.89	4	0.96	34 41	15.74	54	12.89	33 51
15.10	20	19.28	27 25	16.08	11	31.64	25 58	15.47	0	85.54	30 49	16.08	4	1.02	33 24	15.74	56	13.50	36 31
14.69	21	19.63	27 00	13.70	11	31.68	20 06	16.08	0	85.55	36 33	12.45	4	1.02	37 05	13.50	57	13.73	37 59
14.69	21	19.63	23 22	15.74	6 10	73.43	36 30	15.89?	1	85.90	30 45	14.36	6	1.42	31 59	13.11	57	13.74	39 07
15.58	22	19.67	26 37	12.63	10	73.56	32 37	16.08	2	85.99	37 35	15.58	8	1.97	38 15	15.10	59	14.25	31 16
14.64	22	19.83	29 44	15.05	10	73.58	31 24	14.94	2	86.07	34 23	11.95	9	2.17	37 28	16.08	9 0	14.53	32 34
15.20	23	20.07	28 19	15.10	11	73.74	35 58	11.62	4	86.62	30 27	16.08	10	2.45	37 57	15.58	1	14.73	36 57
15.63	24	20.13	22 07	16.08	11	73.76	39 11	15.63	5	86.84	36 51	16.08	10	2.47	38 31	14.94	4	15.31	37 07
13.38	24	20.25	26 38	15.10	11	73.84	35 49	14.79	6	86.92	32 07	16.08	11	2.72	33 36	15.74	7	16.13	37 04
15.36	26	20.81	24 56	16.08	13	74.33	35 07	16.08	7	87.18	34 42	15.47	11	2.73	35 08	13.38	8	16.37	39 24
15.20	28	21.33	22 51	15.31	15	74.73	38 21	15.10	7	87.33	39 47	16.08	13	3.22	37 07	14.31	8	16.40	35 03
14.36	29	21.40	28 48	14.79	16	74.99	33 18	14.69:	8	87.56	32 39	16.08	14	3.39	35 41	13.78	8	16.43	31 43
13.00	29	21.56	28 14	16.08	17	75.30	33 51	15.10	9	87.71	39 27	16.08	15	3.59	34 20	15.74	9	16.63	36 13
14.09	31	22.01	22 03	16.08	18	75.45	33 33	14.69	10	87.93	35 28	16.08	15	3.70	32 30	14.13	11	17.09	31 57
15.10	33	22.30	26 33	16.08	19	75.78	32 37	16.08	11	88.14	37 15	15.10	15	3.72	36 04	15.20	14	17.72	36 39
14.69	34	22.75	22 51	13.46	21	76.10	32 32	16.08	13	88.76	32 41	11.95	16	3.77	39 27	12.45	15	18.12	39 47
16.08	35	22.82	26 53	14.36	22	76.46	30 44	16.08	14	88.82	38 21	15.89	16	3.92	34 28	15.89	16	18.40	38 36
14.69	36	23.02	21 28	16.08	22	76.51	33 20	15.89	16	89.32	31 46	15.89	19	4.59	39 41	15.89	18	18.89	37 24
15.00	36	23.07	20 22	16.08	24	76.82	38 04	16.08	19	90.04	37 21	15.89	19	4.61	31 02	15.89	21	19.47	31 42
13.62	37	23.40	29 59	15.36	24	76.97	36 16	15.74	19	90.09	30 41	16.08	20	4.84	33 16	15.36	24	20.17	36 51
16.08	38	23.66	23 07	15.47	26	77.37	39 07	10.94	20	90.40	37 25	14.69	22	5.18	39 38	15.10	25	20.53	30 01
16.08	41	24.39	28 35	14.55	27	77.52	30 47	13.19	22	90.75	38 44	15.89	22	5.35	32 06	16.08	26	20.61	38 33
13.91	41	24.39	23 48	11.12	27	77.71	36 32	15.74	25	91.52	39 46	15.10	25	6.03	36 52	16.08	27	20.85	36 29
14.31	42	24.47	29 44	15.31	27	77.72	34 13	16.08	25	91.65	34 27	15.10	26	6.37	32 03	16.08	28	21.25	36 40
16.08	42	24.50	24 03	12.28	30	78.26	30 21	14.60	26	91.70	39 45	15.10	27	6.53	34 44	16.08	28	21.28	32 26
16.08	42	24.51	24 34	16.08	31	78.60	31 23	14.69	28	92.38	32 44	16.08	31	7.35	38 18	13.66	30	21.61	36 21
14.84	44	24.99	25 03	14.79	32	78.72	33 54	15.36	29	92.60	36 47	13.50	31	7.51	36 20	13.66	31	21.80	34 44
12.28	45	25.31	24 14	14.60	32	78.81	34 18	16.08	32	93.18	32 20	14.69	31	7.52	34 53	15.74	31	21.80	30 27
16.08	46	25.46	29 06	15.89	33	79.03	39 20	15.31	33	93.51	33 36	13.78	32	7.68	33 46	15.58	31	21.80	39 02
16.08	46	25.53	24 26	14.13	34	79.35	36 42	12.45	38	94.59	38 36	15.47	35	8.31	35 35	14.13	31	22.01	31 07
15.63	47	25.81	23 00	14.69	38	80.19	34 02	14.18	38	94.71	30 08	15.36	39	9.29	31 54	14.69	34	22.52	37 03
15.52	47	25.88	29 48	13.70	41	80.96	34 15	15.05	38	94.75	35 06	15.74	39	9.45	34 34	15.05	34	22.66	39 29
16.08	49	26.28	29 47	16.08?	41	80.98	39 04	15.20	38	94.79	36 08	14.55	40	9.63	36 52	15.89	34	22.71	30 06
15.05	50	26.50	28 40	16.08	42	81.16	31 12	11.62	41	95.32	33 30	15.20	40	9.65	33 08	15.58	36	23.24	30 50
15.05	50	26.54	23 54	10.75	44	81.61	32 27	13.50	43	95.79	33 32	15.10	40	9.75	31 27	13.00	38	23.48	36 06
12.28	50	26.63	24 38	15.10	44	81.70	36 15	15.58	43	95.85	32 54	14.94	41	9.94	36 05	15.05	38	23.67	36 34
14.60	51	26.68	22 37	14.94	45	81.87	36 55	16.08	43	95.88	36 38	15.10	41	9.96	39 22	13.46	39	23.94	36 50
13.19	51	26.75	23 55	16.08	45	81.94	38 52	16.08	43	95.99	36 07	16.08	42	10.08	35 29	15.10	41	24.26	38 31
16.08	52	27.02	21 07	14.94	49	82.94	32 14	14.36	44	96.06	31 55	16.08	44	10.63	36 06	15.31	42	24.45	33 10
16.08	52	27.09	28 47	15.05	52	83.63	35 21	15.20	48	96.99	30 34	16.08	46	11.02	37 03	15.05	44	25.00	31 00
14.31	54	27.40	20 53	15.10	53	83.78	34 41	14.84	49	97.36	35 18	15.36	46	11.19	33 00	15.63	47	25.76	37 32
15.89	56	27.83	27 03	14.09	53	83.84	34 54	15.89	49	97.43	39 41	15.20	47	11.21	38 47	15.58	48	26.09	31 47
15.58	56	27.87	26 57	15.31	53	83.87	32 32	15.31	50	97.71	35 55	15.10	47	11.22	39 47	12.28	48	26.10	35 48
14.84	59	28.59	25 30	14.31	55	84.26	30 33	14.69	51	97.81	33 15	6.20 1)	47	11.23	34 20	15.20	49	26.24	39 06
15.63	10 1	29.12	29 28	11.11	55	84.42	34 25	13.38	53	98.30	30 33	15.05	49	11.73	33 34	15.47	50	26.53	36 58

1) Vis. magn. from Harv. Ann. 50, reduced to photogr. magn. by Harv. Ann. 71, I p. 7.

25 prec. + 70 sec. + 6′ 7″.

21^{h} Area 89. + 15°

1301—1310				1311—1320				1321—1322			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.08	9 51	26.70	37 32	14.55	10 5	30.08	38 31	14.69	10 16	32.66	31 58
16.08	52	26.86	35 00	16.08	6	30.32	38 02	14.09	16	32.77	37 12
15.05	52	26.89	33 25	15.63	7	30.52	33 54				
16.08	55	27.73	33 20	12.81	10	31.25	36 14				
11.95	55	27.76	35 16	15.89	10	31.35	39 28				
14.60	58	28.48	30 46	16.08	10	31.43	35 01				
16.08	58	28.53	36 47	16.08	12	31.90	39 51				
14.69	10 1	29.21	37 46	16.08	13	31.95	33 38				
15.20	2	29.39	34 25	15.05	14	32.32	33 36				
11.46	3	29.68	34 55	16.08	15	32.62	35 15				

25 prec. + 70 sec. + 6′ 10″.

22^{h} Area 90. Centre for 1900: 22^{h} 12^{m} + 15° 10′. + 14°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.29	10 45	81.91	44 45	12.78	12 2	0.52	44 21	13.68	13 1	14.71	47 43	15.46	13 52	27.02	41 13	15.98	10 46	82.24	56 59
15.15	53	83.69	40 06	15.98	6	1.57	42 55	14.86	2	14.87	43 13	14.91	52	27.04	43 42	14.91	49	82.95	51 42
15.79	53	83.91	47 22	15.03	14	3.48	42 22	15.98	3	15.15	47 04	15.33	56	27.99	44 31	12.38	50	83.01	52 59
14.74	54	84.07	43 57	14.03	16	3.79	45 42	15.33	4	15.40	41 56	14.74	56	28.03	42 09	15.98	50	83.12	59 15
14.91	57	84.73	46 05	15.98	16	3.82	48 55	15.46	9	16.69	44 15	10.64	56	28.06	48 02	15.15	53	83.73	52 37
14.08	11 5	86.60	43 08	15.03	20	4.95	47 25	15.98	13	17.56	46 25	15.98	58	28.40	46 30	15.03	53	83.81	56 06
14.34	7	87.19	40 44	14.18	22	5.27	40 43	14.91	15	18.13	49 54	15.64	14 0	28.92	40 25	15.21	53	83.83	58 05
13.54	11	88.13	47 28	10.83	24	5.74	44 00	13.82	15	18.22	44 09	15.46	4	29.99	49 02	14.57	54	83.94	58 36
14.91	11	88.23	43 16	15.46	28	6.72	44 43	12.78	18	18.76	41 27	15.79	5	30.21	40 49	8.43*	58	85.10	56 36
11.54	11	88.26	42 41	14.57	30	7.18	43 53	15.15	19	19.05	47 29	13.12	6	30.38	41 41	15.03	59	85.23	55 50
14.34	15	89.18	41 47	14.86	30	7.26	48 20	15.98	19	19.16	46 02	14.74	8	30.95	49 52	10.93	11 2	85.89	59 01
14.86	20	90.26	45 48	12.02	34	8.17	46 00	13.44	21	19.54	47 43	15.03	9	31.12	42 42	15.21	4	86.56	57 54
15.15	22	90.78	43 00	15.33	35	8.39	44 36	15.33	21	19.55	46 37	15.79:	11	31.57	42 02	14.34	7	87.17	56 18
15.33	22	90.87	49 15	14.86	35	8.50	46 31	15.98	21	19.60	42 59	13.87	16	32.94	49 52	12.02	8	87.45	56 07
15.64	22	90.88	41 35	15.98	36	8.70	46 21	14.34	23	19.97	48 55	15.03	17	33.12	43 08	15.98	11	88.11	54 44
15.64	28	92.36	49 26	14.62	38	9.19	42 27	10.68	24	20.32	44 40	14.34	20	33.83	40 44	15.33	17	89.51	54 49
12.49	35	93.94	47 31	15.64	39	9.47	42 18	15.98	26	20.78	48 24	12.02	24	34.73	45 27	13.92	18	89.83	55 56
12.99	36	94.10	45 09	15.46	40	9.72	47 41	15.21	28	21.33	48 37	14.03	26	35.36	46 33	12.57	21	90.67	56 32
15.03	37	94.52	45 16	14.57	41	9.86	45 45	15.98	31	22.07	42 41	11.54	27	35.43	48 20	14.57	30	92.75	54 29
15.33	38	94.79	40 59	14.03	42	10.06	47 29	15.98	32	22.17	41 06	10.64	27	35.51	49 07	15.98	33	93.53	57 04
14.74	39	94.95	41 37	15.21	45	10.91	49 36	15.79	32	22.23	48 51	14.86	33	37.10	42 01	11.48	42	95.72	50 07
15.98	41	95.50	44 34	15.33	46	11.09	45 44	14.18	34	22.80	46 33	15.98	34	37.13	43 14	15.03	45	96.35	58 01
15.15	42	95.61	42 36	13.78	51	12.38	44 36	15.15	36	23.22	45 35	15.98	42	39.20	49 23	12.02	46	96.53	54 01
15.98	44	96.06	41 03	14.45	52	12.55	48 16	12.02	38	23.64	44 59	12.02	46	40.17	46 46	15.98	46	96.66	52 41
12.57	49	97.40	41 40	14.91	55	13.22	41 20	14.08	40	24.16	49 08	15.79	48	40.71	49 23	14.91	46	96.68	53 41
15.79	51	97.72	48 54	13.44	56	13.48	48 37	15.33	43	24.82	44 18	12.78	49	40.76	44 52	14.08	48	97.10	56 11
15.98	54	98.48	45 27	14.91	56	13.60	42 19	15.46	44	25.08	42 57	15.79	10 42	81.15	50 59	15.52	52	98.15	50 12
15.21	58	99.42	48 42	15.15	57	13.69	46 03	13.68	44	25.10	45 52	13.30	44	81.65	56 56	14.62	54	98.48	56 08
14.62	58	99.56	46 41	12.86	57	13.80	43 56	15.46	45	25.43	43 14	15.98	45	81.94	53 16	15.98	57	99.25	53 49
13.73	59	99.78	49 48	15.03	59	14.32	41 23	15.15	48	26.17	45 45	13.68	45	81.99	57 05	15.33	12 2	0.49	51 06

25 prec. + 73 sec. + 7′ 27″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	$y+70'$	Int. magn.	α	x	$y+70'$ / $y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.44	12 5	1.23	54 58	11.69	13 38	23.76	55 15	14.34	11 8	87.54	3 31	15.46	12 58	14.10	1 08	15.98	11 7	87.13	17 29
13.26	7	1.68	50 00	13.30	38	23.76	59 12	14.57	9	87.59	7 11	15.03	13 6	15.83	4 25	15.98	7	87.27	14 44
15.15	9	2.18	53 43	13.82	43	24.91	55 38	13.21	15	89.04	5 10	14.74	7	16.06	0 28	14.97	14	89.02	10 10
15.64	11	2.57	51 11	15.98	44	25.08	58 44	11.85	17	89.67	1 29	15.03	13	17.66	6 00	13.21	17	89.62	18 55
15.21	11	2.57	52 01	13.35	44	25.12	50 32	14.74	18	89.82	7 15	15.98	15	18.21	7 12	15.98	21	90.62	19 19
14.91	11	2.64	55 37	15.79	50	26.65	54 07	14.91	22	90.77	3 44	15.33	29	21.38	7 42	14.74	26	91.77	19 12
15.15	11	2.68	52 18	15.33	52	26.98	53 32	11.40	23	91.14	2 39	13.82	29	21.46	2 26	15.98	28	92.23	19 58
15.98	13	3.05	57 09	15.52	52	27.01	55 10	15.79	25	91.45	9 45	15.98	29	21.55	6 14	15.79?	29	92.52	19 11
13.92	13	3.17	56 20	15.98	54	27.55	54 12	11.40	27	91.96	0 22	13.78	31	21.97	7 59	14.34	31	93.00	18 25
15.33	15	3.56	51 53	14.62	55	27.81	56 02	15.79	31	93.00	9 00	15.33	33	22.56	5 18	14.86	33	93.47	15 48
15.98	15	3.67	55 55	13.44	55	27.87	52 43	13.92	32	93.29	5 47	15.64	39	23.82	0 50	15.98	33	93.60	17 44
15.98	16	3.84	56 41	15.98	56	28.12	56 18	11.85	43	95.82	0 40	14.34	44	25.03	1 00	14.18	35	94.03	17 24
15.98	20	4.92	58 40	14.86	59	28.82	51 03	15.21	43	96.00	4 54	15.15	44	25.04	4 55	15.98	38	94.63	11 15
13.92	23	5.49	50 12	12.19	14 6	30.37	52 12	15.03	48	97.06	0 06	15.40	44	25.05	0 18	14.29	39	94.92	11 17
14.57	23	5.50	55 53	10.64	8	30.94	58 26	15.33	48	97.18	1 15	14.86	45	25.39	6 04	14.03	40	95.24	14 18
14.18	27	6.52	51 44	14.45	8	31.01	51 19	15.33	52	98.00	7 39	15.98	47	25.87	6 31	14.91	41	95.52	14 00
14.74	31	7.49	58 14	15.98	10	31.38	53 47	12.91	53	98.38	4 06	15.46?	48	26.17	8 42	10.62	45	96.42	16 07
15.98	32	7.79	56 52	15.98	11	31.63	51 40	14.08	56	99.10	3 28	12.57	50	26.65	0 58	14.68	48	97.23	19 38
15.98	34	8.26	57 22	15.21	13	32.22	52 42	15.98	12 0	99.99	1 44	10.83	14 4	29.97	7 48	15.03	49	97.34	10 24
15.79	34	8.30	57 01	13.58	18	33.31	56 22	15.15	0	0.03	0 22	11.54	6	30.37	6 43	12.99	50	97.52	16 51
15.64	40	9.74	52 11	10.49	18	33.32	54 57	15.15	1	0.26	2 37	15.79	7	30.60	1 08	14.08	50	97.52	12 41
15.98	43	10.28	50 54	14.45	19	33.52	51 47	14.45	2	0.48	2 04	15.52	8	30.85	0 43	14.45	51	97.77	19 16
15.98	45	10.97	58 36	15.33	20	33.79	57 05	15.15	3	0.72	4 54	14.03	8	30.97	8 26	15.79	55	98.86	19 16
12.57	46	11.05	58 14	15.98	23	34.57	53 01	15.33	6	1.46	9 08	15.46	10	31.43	7 53	15.79	56	99.16	13 02
15.15	46	11.19	52 25	14.91	26	35.30	55 52	14.45	10	2.34	6 40	14.86	11	31.54	9 26	15.79	58	99.45	14 53
15.15	50	12.02	58 57	14.24	29	36.11	50 16	15.98	11	2.61	3 34	14.74	12	31.95	3 03	15.64	58	99.50	16 36
15.98	50	12.08	53 10	14.08	30	36.25	52 42	14.45	14	3.42	8 20	13.58	17	33.03	6 42	15.46	12 2	0.54	14 16
15.15	51	12.28	53 29	15.21	31	36.55	52 28	14.57	15	3.57	9 28	14.74	18	33.37	2 53	15.98	3	0.73	19 52
14.91	52	12.49	52 30	15.33	31	36.58	54 23	13.58	15	3.60	0 26	12.02	21	34.12	1 47	13.21	5	1.22	14 01
11.54	52	12.62	53 49	15.21	37	37.83	51 00	15.21	16	3.77	0 10	14.29	23	34.56	7 45	15.98	5	1.28	17 20
14.29	53	12.73	56 59	12.19	40	38.53	52 10	12.19	18	4.28	3 10	14.91	24	34.70	9 50	14.97	6	1.54	10 22
15.15	53	12.82	51 43	15.46	46	40.19	54 52	14.45	18	4.45	3 03	14.91	25	35.08	2 47	14.62	10	2.45	19 17
15.40	53	12.90	59 46	13.58	48	40.57	58 28	15.79	20	4.86	2 16	15.03	27	35.45	2 44	14.03	13	3.20	11 05
15.98	54	13.10	55 08	15.98	48	40.66	53 13	11.40	22	5.36	7 30	15.15	30	36.18	5 09	15.98	15	3.64	15 46
15.79	56	13.52	55 21	15.98	49	40.89	57 42	15.98	23	5.47	5 51	14.91	32	36.59	4 11	13.92	18	4.42	17 49
14.57	57	13.72	50 58	12.78	10 41	81.01	5 51	15.79	30	7.35	2 00	8.15*	32	36.76	2 44	15.03	22	5.27	19 44
14.29	58	13.97	54 23	15.98	42	81.21	5 45	12.02	31	7.43	9 24	14.08	33	36.90	5 25	14.86	26	6.17	10 31
14.08	13 10	16.92	53 18	13.30	44	81.74	9 15	14.57	36	8.62	5 18	15.46	34	37.09	2 56	15.21	27	6.54	13 00
15.98	11	17.13	55 40	14.57	45	81.84	0 50	9.71*	38	9.14	5 23	11.69	44	39.54	0 43	15.79	28	6.69	17 16
14.74	12	17.44	55 05	15.98	48	82.55	6 14	15.98	39	9.32	6 01	15.21	10 48	82.57	13 57	13.82	29	6.93	14 48
14.08	13	17.60	58 49	14.03	52	83.52	3 19	15.03	39	9.45	2 55	12.02	48	82.58	16 01	15.03	29	6.99	11 38
11.69	14	17.97	57 51	15.46	52	83.63	2 05	10.93	44	10.54	1 36	15.46	49	82.94	16 25	15.79	29	7.09	14 18
15.15	16	18.36	58 23	14.45	53	83.73	0 46	14.24	46	11.03	9 33	15.03	49	82.97	18 55	14.74	37	9.04	12 16
15.98	22	19.72	59 01	14.18	54	84.11	0 42	14.03	47	11.31	6 33	14.08	50	83.04	13 34	15.52	39	9.38	17 19
14.18	25	20.49	56 57	14.03	56	84.43	1 07	15.98	52	12.53	6 23	11.13	51	83.37	16 34	13.21	41	9.88	12 50
15.52	25	20.64	52 48	15.79	59	85.20	1 31	15.98	54	13.01	0 35	14.45	52	83.56	17 26	12.91	45	10.94	12 48
15.79	28	21.27	55 33	14.29	11 1	85.67	9 16	14.62	54	13.11	5 06	15.15	54	84.15	18 59	9.12*	47	11.24	13 19
15.98	36	23.26	54 47	15.98	1	85.73	6 45	14.91	55	13.27	9 14	15.71	57	84.74	10 06	14.18	48	11.64	15 28
15.98	37	23.37	58 02	15.79	2	86.01	1 05	15.79	56	13.54	1 49	13.17	58	84.96	10 32	15.98	49	11.87	10 56
15.33	37	23.45	52 22	14.34	8	87.38	8 27	13.21	58	14.02	9 14	15.33	11 3	86.20	16 25	13.58	51	12.27	18 56

25 prec. + 73 sec. + 7′ 27″.

Area 90.

401—450				451—500				501—550				551—600				601—650			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.15	12 52	12.46	17 36	14.57	14 39	38.46	12 58	14.34	12 10	2.40	25 56	15.98	13 53	27.22	26 32	14.91	11 35	94.07	37 37
14.29	56	13.46	13 33	14.34	42	39.07	15 01	15.98	10	2.52	20 14	12.70	14 0	28.83	21 21	15.98	46	96.57	39 05
15.98	13 5	15.58	15 04	13.78	46	39.99	17 27	15.46	11	2.58	24 52	12.19	2	29.48	28 51	15.98	47	96.92	38 13
14.86	5	15.59	18 44	15.33	47	40.31	13 16	15.15	11	2.65	23 04	14.34	4	29.80	20 35	15.64	50	97.58	39 16
14.34	6	15.82	18 56	15.15	48	40.58	15 56	14.86	16	3.81	23 52	14.45	4	29.84	22 58	15.98	51	97.80	31 00
14.57	6	15.92	13 40	15.33	49	40.77	18 23	15.03	16	3.84	29 46	15.79	6	30.47	26 47	14.34	54	98.48	30 07
12.99	6	15.95	10 12	15.03	10 43	81.34	23 12	15.64	17	4.07	28 54	15.64	10	31.40	29 11	12.57	55	98.76	30 38
14.80	9	16.63	10 02	11.26	47	82.45	29 10	14.45	18	4.29	22 39	9.26	11	31.46	25 48	15.98	55	98.80	36 21
14.91	13	17.62	13 01	15.52	48	82.72	29 39	15.46	22	5.36	28 54	15.52?	18	33.18	24 46	13.35	56	99.09	30 32
15.03	14	17.94	12 50	13.21	51	83.42	27 34	13.12	27	6.41	24 04	15.98	18	33.37	28 13	15.98	57	99.32	36 26
15.98	16	18.44	18 10	15.98	51	83.45	26 45	14.97	27	6.58	20 11	14.57	20	33.70	20 48	15.03	59	99.87	34 26
11.85	17	18.68	18 01	15.98	53	83.81	26 48	9.03	30	7.31	25 58	14.91	23	34.36	25 55	14.45	12 1	0.31	32 53
15.64	18	18.73	16 48	14.80	55	84.44	20 06	15.64	31	7.57	20 06	15.98	28	35.70	29 56	15.64	5	1.16	32 26
15.98?	18	18.86	15 19	14.03	58	85.17	26 13	11.54	33	7.96	29 19	15.98	29	35.93	23 34	13.68	5	1.20	33 14
15.98	19	18.99	13 46	15.15	11 0	85.54	26 07	15.33	35	8.53	25 28	13.12	32	36.69	22 02	15.03	6	1.53	34 27
11.54	21	19.45	18 12	15.03	2	86.01	20 48	14.29	36	8.59	28 25	14.45	32	36.75	27 55	15.15	7	1.61	31 48
12.19	21	19.64	14 11	15.03	2	86.06	26 05	14.34	40	9.66	24 44	15.98	37	37.75	26 09	15.15	9	2.17	31 26
15.15	30	21.61	13 45	14.86	3	86.34	24 07	11.69	41	9.87	22 11	14.57	39	38.25	21 09	15.98	13	3.03	32 11
15.15	31	21.99	18 35	14.45	6	87.07	27 33	15.98	42	10.04	25 50	15.15	40	38.61	28 46	14.18	13	3.05	31 37
14.45	31	22.03	10 39	15.21	7	87.17	23 36	15.21	44	10.60	24 04	15.98	44	39.54	29 30	14.57	20	4.78	33 16
15.03	33	22.44	15 08	15.79	7	87.17	27 08	14.18	49	11.90	26 33	15.64	44	39.62	23 32	14.91	25	6.07	32 33
14.62	35	23.00	16 20	14.45	9	87.63	22 37	14.91	52	12.52	29 04	15.98	44	39.63	29 22	15.21	26	6.35	33 57
13.21	39	23.99	16 40	14.74	9	87.68	23 28	15.79	56	13.56	25 09	15.33	45	39.86	20 52	12.78	28	6.75	30 12
15.15	40	24.09	10 28	15.21	11	88.08	23 25	13.35	57	13.75	29 06	15.98	46	40.08	22 07	15.98	29	6.99	35 34
12.86	42	24.55	12 22	12.57	12	88.34	29 19	15.15	57	13.78	26 29	15.64	49	40.76	23 00	14.18	33	8.02	35 33
14.45	42	24.63	11 28	14.45	12	88.51	21 58	15.52	13 1	14.74	28 30	11.54	10 44	81.75	34 08	11.40	37	8.98	33 25
15.03	42	24.69	13 11	15.79	17	89.54	22 55	15.98	1	14.81	26 40	15.98	45	81.91	36 47	11.69	39	9.48	36 24
11.85	48	26.12	14 13	13.82	20	90.34	27 36	15.03	3	15.08	26 34	15.64	47	82.39	39 21	14.74	40	9.68	35 47
10.83	50	26.65	18 04	15.33	20	90.41	28 57	14.03	3	15.25	29 23	12.65	51	83.27	30 33	15.21	40	9.69	33 59
14.03	53	27.25	12 39	13.82	21	90.55	20 29	15.98	5	15.64	26 59	13.92	54	84.12	30 02	14.62	42	10.10	35 24
15.15	55	27.78	12 48	15.79	23	91.06	27 55	14.91	9	16.68	29 50	15.98	54	84.13	34 21	10.78	42	10.15	39 28
15.46	14 0	29.03	17 12	15.79	24	91.26	27 54	15.46	14	17.78	25 14	15.98	57	84.91	36 16	15.98	44	10.56	30 46
10.93	2	29.41	19 14	15.15	25	91.46	27 29	14.45	17	18.61	25 24	15.98	11 0	85.59	32 32	13.08	45	10.91	36 56
13.44	2	29.51	11 21	15.15	25	91.51	29 40	14.08	20	19.28	28 34	15.46	5	86.66	33 37	15.98	45	10.91	39 02
14.86	4	29.88	19 01	15.98	29	92.64	25 38	15.03	20	19.38	23 19	15.98	8	87.45	37 39	15.52	46	11.07	37 34
15.46	4	29.91	14 23	14.91	34	93.83	27 06	15.46	21	19.51	25 15	12.49	11	88.11	39 59	15.98	48	11.44	32 33
15.64	5	30.14	10 29	14.57	35	94.04	27 23	15.21	21	19.52	25 38	15.79	11	88.20	30 30	15.21?	48	11.44	31 44
15.21	8	30.90	14 16	14.29	36	94.22	28 34	15.98	22	19.68	26 23	15.46	13	88.78	31 45	15.98	53	12.85	37 05
14.62	9	31.08	15 58	14.03	37	94.42	24 08	15.03	24	20.27	25 15	15.21	15	89.18	36 42	12.70	54	12.92	38 06
15.98	18	33.24	10 36	15.98	39	94.91	27 05	15.98	26	20.60	25 00	8.44	16	89.32	31 25	12.19	55	13.26	33 48
15.21	21	33.95	13 09	15.64	42	95.67	22 27	11.01	26	20.80	29 10	15.64	18	89.97	32 49	13.92	56	13.39	32 56
15.03	26	35.27	17 00	15.15	42	95.72	21 17	15.03	30	21.78	20 08	11.85	19	90.03	32 30	15.79	58	14.01	38 54
15.21	27	35.47	11 31	14.34	45	96.32	25 35	12.19	34	22.63	29 58	15.79	21	90.54	33 36	13.92	58	14.03	37 04
15.64	27	35.54	11 57	12.57	50	97.68	27 38	13.92	34	22.76	23 23	12.19	24	91.24	32 12	15.98	58	14.04	33 08
14.34	30	36.27	19 26	14.34	58	99.43	28 54	15.15	36	23.02	20 34	13.44	24	91.32	33 18	14.18	59	14.27	34 55
14.74	31	36.32	17 45	14.29	12 1	0.19	28 57	13.82	38	23.55	24 34	11.85	29	92.65	31 10	15.98	13 1	14.59	33 58
13.35	33	36.96	12 20	15.33	3	0.67	29 05	15.98	40	23.98	22 47	15.46	32	93.22	34 50	15.98	1	14.60	30 46
14.34	34	37.02	10 58	15.03	3	0.77	26 04	15.52	43	24.75	24 00	13.92	33	93.52	32 25	15.52	4	15.29	39 42
15.98	34	37.11	18 59	15.98	4	1.03	28 52	15.98	47	25.69	27 26	15.98	33	93.59	34 33	15.98	4	15.46	34 24
14.08	38	38.08	12 15	15.98	7	1.73	22 40	15.98	48	26.12	20 45	15.98	34	93.80	39 22	15.98	6	16.02	36 33

25 prec. + 73 sec. + 7′ 27″.

651—660				661—670				671—680				681—690				691—695			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.03	13 7	16.22	30 04	14.62	13 31	22.00	36 16	15.79	13 55	27.70	36 50	15.98	14 8	30.90	33 30	15.98	14 38	38.15	30 54
15.21	10	16.80	36 06	13.92	33	22.46	35 28	14.08	57	28.21	36 49	15.52	12	31.76	30 57	14.34	41	38.67	36 09
15.98	11	17.18	37 32	14.62	37	23.27	35 32	15.79	59	28.77	36 11	10.83	12	31.80	32 43	13.58	47	40.23	39 19
14.18	14	17.72	33 22	15.98	40	24.12	37 26	15.46	14 3	29.62	37 19	15.15	19	33.54	31 47	15.98	49	40.61	30 38
14.62	19	18.98	34 18	15.46	41	24.30	34 22	12.02	4	29.77	31 53	14.86	20	33.81	39 28	7.5 1)	49	40.82	39 45
15.33	21	19.45	36 13	15.33	43	24.81	39 41	15.33	4	29.78	39 42	13.21	26	35.18	30 30				
14.45	21	19.58	38 44	12.86	44	24.95	37 59	12.38	5	30.04	37 20	15.15	28	35.75	32 21				
13.92	27	20.99	39 22	15.64	44	24.99	38 53	15.21	5	30.11	31 30	14.45	31	36.34	30 37				
12.91	28	21.31	32 01	13.54	48	26.07	30 22	15.79	6	30.41	36 59	14.68	32	36.72	30 09				
14.57	29	21.34	31 17	12.38	53	27.32	31 47	15.79	8	30.80	38 17	14.74	35	37.33	34 51				

25 prec. + 73 sec. + 7′ 28″.

23h Area 91. Centre for 1900: 23h 13m + 15° 0′. + 14°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.61	10 25	62.58	23 06	16.21	11 32	78.70	28 13	16.95	12 36	94.15	26 41	15.09	13 28	6.78	21 09	14.74	14 31	22.03	26 20
16.95	29	63.42	27 10	15.20	33	79.00	24 52	16.06	41	95.50	24 04	16.76	32	7.76	23 29	14.53	33	22.59	28 15
16.61	29	63.55	26 41	16.45	34	79.20	29 34	15.71	46	96.70	24 10	15.20	37	8.95	28 21	16.95	36	23.14	29 57
16.21	34	64.58	22 40	14.74	36	79.56	22 26	16.95	49	97.26	27 40	15.39	41	9.92	22 09	15.84	39	23.94	29 07
16.37	34	64.60	26 48	15.84	36	79.77	23 04	16.95	50	97.68	20 39	13.66	44	10.66	20 52	16.61	40	24.19	24 20
15.09	35	64.97	21 19	16.95	37	79.93	28 09	16.06	53	98.37	26 14	15.09	46	11.02	20 39	15.03	42	24.73	26 27
15.84	38	65.53	28 27	15.99	50	83.03	23 49	14.27	53	98.37	26 59	16.76	46	11.15	21 13	15.64	43	25.00	26 09
9.96	42	66.63	28 47	16.95	52	83.56	20 10	14.37	55	98.70	28 46	15.99	53	12.86	21 37	14.12	44	25.17	22 05
16.45	43	66.81	26 20	13.23	53	83.84	27 41	16.45	55	98.79	21 01	16.06	55	13.41	25 42	15.71	48	26.17	27 24
16.95	46	67.50	29 41	16.95	56	84.57	21 30	15.09	56	99.07	27 49	16.21	56	13.45	22 02	15.64	49	26.46	24 41
15.99	50	68.55	24 25	16.76	57	84.66	28 03	15.84	58	99.46	25 31	16.21	56	13.61	26 04	11.35	51	26.84	26 07
15.45	51	68.72	29 55	14.48	59	85.20	25 00	14.63	13 0	0.02	21 30	15.09	14 0	14.60	27 00	16.95	53	27.26	24 09
15.84	57	70.32	27 52	16.61	12 0	85.46	26 04	15.99	5	1.18	27 48	14.22	4	15.46	22 45	15.84	59	28.73	24 15
14.27	58	70.34	27 40	15.39	5	86.62	29 20	16.95	9	2.17	20 53	13.66	4	15.55	25 11	16.21	15 2	29.60	28 03
13.44	59	70.81	26 11	15.39	5	86.73	20 09	14.22	10	2.46	21 47	14.74	9	16.60	23 19	14.37	4	30.06	21 30
13.36	11 4	71.84	29 11	15.03	5	86.76	21 28	16.37	13	3.12	28 00	16.06	9	16.75	21 07	15.99	5	30.18	22 36
16.45	8	72.81	26 54	15.32	6	86.83	29 52	16.06	15	3.58	20 01	16.95	12	17.44	27 55	11.40	6	30.48	24 43
15.03	10	73.37	24 05	15.99	6	86.93	25 50	15.71	15	3.59	24 29	14.80	15	18.05	22 54	16.21	9	31.27	28 15
16.76	12	73.82	28 57	16.95	7	87.16	23 32	15.71	15	3.67	24 38	15.99	15	18.09	27 04	16.21	18	33.39	24 09
16.06	12	73.98	29 42	11.24	8	87.44	22 51	16.95	17	4.10	27 54	13.89	16	18.30	24 56	16.06	18	33.52	22 49
13.57	16	74.74	27 17	16.61	15	89.10	21 42	16.45	19	4.51	28 34	13.98	18	18.90	22 31	16.06	19	33.70	29 26
16.76	18	75.34	25 42	16.45	16	89.46	24 41	15.71	20	4.77	29 25	16.95	21	19.66	29 00	16.61	22	34.36	20 04
16.06?	19	75.50	27 15	16.06	21	90.50	22 29	14.63	21	5.09	20 43	15.39	22	19.95	27 30	15.84	28	35.88	23 27
14.63	19	75.60	21 35	13.44	21	90.63	25 07	16.95	22	5.32	20 04	15.32	25	20.67	22 08	14.80	32	36.82	27 05
11.34	19	75.60	28 22	15.51	22	90.92	21 02	15.20	24	5.74	22 46	15.32	26	20.72	29 42	15.99	34	37.23	21 18
16.76	21	76.02	25 22	16.76	25	91.49	21 11	16.95	24	5.87	22 24	15.32	28	21.19	26 30	12.29	35	37.56	29 24
14.53	26	77.25	20 37	15.71	26	91.76	22 12	16.95	25	5.98	23 30	15.84	28	21.39	25 00	16.21	35	37.61	23 36
16.95	26	77.36	23 11	15.64	28	92.16	28 38	14.53	27	6.46	22 26	16.95	28	21.42	25 11	16.06	37	38.12	25 09
16.06	28	77.61	27 40	16.37	32	93.11	26 02	11.88	28	6.68	24 12	16.95	29	21.53	23 58	14.53	42	39.34	29 20
16.06	28	77.66	26 07	16.45	34	93.67	20 56	12.83	28	6.70	24 22	16.95	31	21.96	20 55	16.45	43	39.56	27 34

25 prec. + 75 sec. + 8′ 11″.

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1) Magnitude very uncertain, extrapolated.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.64	15 45	40.06	22 31	15.03	12 16	89.36	31 31	14.27	13 38	9.21	38 52	8.1 1)	15 44	39.72	30 08	15.99	11 54	84.03	48 18
13.23	46	40.26	23 50	16.21	16	89.47	32 59	15.64	44	10.67	31 10	15.64	47	40.29	34 26	14.63	55	84.21	42 41
15.84	48	40.55	29 27	14.80	17	89.49	39 44	16.95	49	11.87	37 35	15.99	47	40.34	39 30	16.06	56	84.57	40 42
16.95	48	40.73	21 19	16.06	17	89.57	38 55	16.61	52	12.58	35 41	16.45	48	40.74	38 54	15.71	12 0	85.42	45 54
16.95	52	41.74	21 01	14.74	18	89.83	39 20	16.06	53	12.78	39 20	16.21	52	41.66	31 50	16.76	1	85.69	46 44
16.45	53	41.83	23 40	15.20	20	90.34	31 41	15.71	56	13.63	36 29	15.39	10 23	62.04	43 50	13.66	13	88.53	46 37
16.95	10 27	63.02	31 56	16.76	27	91.94	31 33	16.06	14 1	14.78	37 39	16.95	25	62.47	40 31	16.21	16	89.48	44 43
16.95	28	63.24	34 53	16.95	27	92.10	39 40	16.06	1	14.85	35 08	15.84	25	62.58	49 19	15.64	17	89.55	46 07
15.84	28	63.27	37 51	15.84	29	92.49	35 43	15.64	2	14.98	39 17	13.03	28	63.23	41 03	15.64	17	89.56	41 56
16.06	31	63.90	38 51	15.03	30	92.67	31 30	13.23	6	15.93	37 05	15.64	28	63.36	40 21	14.91	19	90.03	44 45
15.20	33	64.33	37 26	16.45	30	92.83	38 21	14.53	10	16.91	34 30	11.05	31	63.90	48 01	14.37	20	90.38	49 45
11.45	33	64.50	36 23	16.95	33	93.56	32 21	10.38	12	17.50	35 18	15.32	31	63.91	44 06	15.84	20	90.40	41 10
16.37	36	65.18	36 10	16.06	34	93.67	38 46	16.21	15	18.19	37 29	16.21	34	64.61	47 24	14.37	22	90.82	42 14
16.95	37	65.31	37 40	14.53	36	94.11	33 51	14.03	16	18.49	30 24	16.95	35	64.91	40 36	12.83	23	90.96	47 31
15.03	39	65.86	37 01	16.95	36	94.18	36 30	16.45	18	18.82	37 42	15.32	37	65.31	46 12	15.39	24	91.31	48 41
15.84	40	66.04	37 44	16.45	39	94.88	31 50	13.66	18	18.83	35 35	15.45	38	65.64	49 52	14.27	26	91.83	48 13
16.21	41	66.38	32 58	15.09	39	94.95	33 34	15.84	19	19.10	32 04	14.22	38	65.70	45 51	15.99	29	92.51	45 41
16.76	41	66.40	36 29	13.57	39	94.95	30 07	12.46	20	19.34	35 52	16.06	38	65.76	43 54	14.63	31	92.98	43 25
9.68	47	67.94	34 14	16.95	42	95.68	34 32	15.71	23	20.05	32 06	15.71	42	66.73	47 52	16.37	32	93.27	41 22
16.95	51	68.88	35 44	15.58	47	96.95	30 16	16.37	28	21.35	38 11	16.76	43	66.81	41 51	16.95	32	93.32	42 07
14.03	52	69.04	33 36	15.51	53	98.39	33 36	15.51	34	22.67	35 02	16.95	44	67.16	44 36	10.60	34	93.71	41 59
15.84	53	69.28	31 14	16.95	55	98.74	35 34	15.32	36	23.27	34 40	13.36	45	67.44	42 13	13.98	37	94.49	42 12
16.61	54	69.42	33 41	15.84	13 0	99.99	31 18	14.80	37	23.48	31 36	11.68	46	67.63	42 12	16.95	42	95.76	42 47
14.22	56	69.91	35 47	15.64	1	0.18	31 17	16.95	37	23.49	34 34	16.95	46	67.66	47 08	15.20	43	95.92	43 34
16.61	11 1	71.24	34 43	16.95	2	0.37	33 10	14.48	42	24.59	32 41	16.95	52	69.14	48 50	13.36	47	96.75	44 57
15.09	3	71.75	38 57	16.37	3	0.70	34 12	16.61	49	26.29	32 41	15.84	55	69.76	48 52	15.84	48	97.08	44 07
15.64	4	71.97	34 06	16.06	4	0.95	36 07	16.95	53	27.41	38 53	16.95	55	69.81	41 54	14.17	53	98.34	40 11
16.95	5	72.11	38 10	15.32	4	0.98	32 52	15.84	58	28.55	36 44	15.32	59	70.84	48 04	16.06	54	98.61	49 20
14.91	6	72.37	37 57	15.84?	5	1.15	36 06	16.95	15 1	29.34	36 00	15.84	11 6	72.36	48 00	16.76	54	98.66	44 40
15.71	6	72.41	38 47	16.95	5	1.26	32 04	15.99	2	29.43	36 38	15.71	6	72.46	40 39	16.45	54	98.67	49 00
15.03	9	73.06	39 02	16.76	6	1.43	30 37	13.94	3	29.86	30 09	14.74	6	72.50	43 53	15.84	56	98.94	41 01
15.84	12	73.96	34 48	15.39	7	1.77	35 27	14.12	6	30.59	38 44	16.76	9	73.19	48 21	16.76	58	99.46	48 03
15.32	14	74.26	33 41	16.06	9	2.19	39 29	16.95	12	31.86	34 49	11.25	10	73.41	41 41	10.98	59	99.76	48 20
16.76	20	75.89	32 03	14.53	9	2.23	33 25	16.61	13	32.15	38 50	16.95	13	74.07	41 57	10.42	59	99.77	43 10
15.71	21	76.02	33 48	13.66	10	2.52	30 38	15.91	17	33.06	30 26	16.95	14	74.25	45 54	16.06	59	99.80	45 09
15.32	24	76.68	37 11	13.44	10	2.54	33 27	14.53	17	33.24	36 17	15.99	16	74.85	40 51	16.61	13 0	99.93	41 15
14.63	28	77.65	37 03	15.39	14	3.45	37 31	16.76	21	34.07	39 27	16.95	17	75.00	49 18	15.99	0	0.04	41 08
16.76	31	78.55	38 48	16.06	18	4.37	36 00	16.53	24	34.76	39 53	15.20	22	76.43	41 47	15.71	1	0.28	46 22
15.99	34	79.09	34 44	15.09	20	4.79	37 53	15.84	25	35.15	33 26	13.98	25	77.06	47 06	16.95	3	0.72	42 11
15.84	35	79.36	35 24	13.89	20	4.79	32 22	15.20	26	35.23	38 18	15.39	28	77.81	45 33	16.06	4	0.98	49 40
15.64	42	81.15	39 19	12.83	21	4.98	38 35	16.45	28	35.69	31 30	16.76	30	78.24	45 10	15.39	5	1.28	42 49
13.23	43	81.28	31 32	14.86	21	5.16	39 58	15.71	32	36.74	39 02	12.83	30	78.26	48 04	14.74	6	1.39	47 48
14.12	43	81.39	38 11	16.95	22	5.35	31 59	15.32	32	36.80	37 30	14.80	33	78.95	49 35	16.95	15	3.58	40 20
16.95	43	81.42	35 34	16.06	23	5.53	37 20	15.84	33	37.10	34 57	15.99	37	80.02	41 31	15.99	17	4.15	46 11
14.53	45	81.80	39 59	15.64	24	5.69	32 40	16.76	34	37.32	30 26	14.22	42	81.19	40 51	16.76	18	4.41	44 52
15.71	45	81.81	34 07	15.64	28	6.70	35 19	15.20	35	37.45	34 39	15.64	42	81.27	48 01	12.46	20	4.76	48 54
15.09	52	83.65	39 52	14.27	28	6.79	34 18	14.37	35	37.58	32 52	15.71	46	82.19	44 12	11.99	21	5.12	41 55
15.20	12 2	86.09	39 00	13.80	32	7.83	38 38	15.51	38	38.12	37 04	16.95	50	83.18	48 40	12.46	25	5.98	45 07
16.37	3	86.26	39 47	14.74	36	8.62	38 21	16.06	38	38.27	34 22	16.14	52	83.64	40 21	16.95	32	7.67	47 47
16.95	15	89.14	32 02	15.64	37	8.99	39 16	14.91	40	38.83	32 49	16.61	53	83.89	44 05	15.09	33	7.87	44 05

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1) Magnitude uncertain, extrapolated.

25 prec. + 75 sec. + 8′ 11″.

401—450				451—500				501—550				551—600				601—650			
Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′	Int. magn.	α	x	y+60′ / y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.03	13 35	8.47	48 10	15.32	15 5	30.20	45 46	14.80	11 31	78.54	53 40	16.95	13 13	3.13	53 53	15.32	15 20	33.78	56 00
16.95	36	8.62	45 10	13.23	12	31.95	44 04	15.20	34	79.31	53 28	15.76	20	4.85	58 55	16.95	21	33.95	58 53
16.21	36	8.76	49 01	15.20	13	32.11	48 41	15.99	36	79.78	56 17	15.84	21	5.01	53 25	15.64	28	35.82	54 39
16.95	38	9.12	44 31	16.95	17	33.22	45 28	16.06	38	80.12	53 57	15.20	26	6.31	57 25	16.37	30	36.30	54 17
16.61	38	9.24	47 14	13.44	19	33.68	42 38	14.63	39	80.37	57 01	13.57	26	6.31	50 27	16.76	34	37.21	50 47
15.71	40	9.71	43 43	16.95	19	33.70	41 02	15.84	39	80.50	53 19	12.64	27	6.58	58 40	15.71	35	37.50	51 14
16.95	42	10.07	47 15	15.39	20	33.97	44 47	15.09	42	81.20	58 02	15.71	28	6.72	51 12	16.95	37	37.84	54 18
15.84	42	10.21	48 24	16.61	22	34.38	41 09	14.91	42	81.23	54 25	16.76	29	6.90	55 57	13.23	41	38.85	54 19
16.06	48	11.52	48 12	12.83	25	35.15	47 03	16.95	43	81.31	59 49	16.95	29	7.11	54 55	15.20	42	39.05	55 43
14.53	49	11.74	43 40	15.84	30	36.20	48 56	15.99	43	81.43	57 41	15.20	41	9.96	59 04	16.61	42	39.08	55 54
16.06	49	11.82	41 11	14.03	31	36.61	48 09	15.51	44	81.67	58 20	15.64	43	10.48	59 11	14.12	51	41.32	59 45
15.39	50	12.03	41 10	15.99	32	36.67	49 02	15.99	46	82.16	51 24	16.76	51	12.27	53 07	16.37	51	41.37	56 04
14.80	54	13.09	44 10	13.03 :	34	37.25	47 11	15.99	47	82.48	53 19	15.20	52	12.60	57 25	13.03	52	41.59	53 50
15.20	55	13.34	49 18	16.76	35	37.47	44 32	14.91	54	83.98	58 44	15.99	55	13.28	50 12	16.61 ?	10 28	63.31	3 17
10.41	55	13.39	43 35	12.24	38	38.21	48 14	16.95	55	84.29	56 52	16.06	56	13.59	54 51	16.76	34	64.83	3 59
16.37	14 1	14.73	45 12	15.51	40	38.60	40 33	11.94	57	84.81	55 40	14.37	57	13.74	50 21	15.99	44	67.12	4 40
14.80	3	15.31	46 08	11.99	41	39.00	45 26	15.39	12 4	86.41	58 18	15.99	58	13.96	50 33	16.06?	49	68.39	6 28
16.76	4	15.37	46 13	12.53	42	39.16	49 50	14.74	6	86.86	55 09	15.99	14 1	14.78	57 24	15.84	49	68.48	2 33
15.99	6	15.90	42 49	15.84	45	39.80	40 20	16.06	8	87.53	54 08	13.75	2	14.99	56 06	15.99	51	68.89	7 05
12.83	6	15.95	42 59	15.09	51	41.34	45 16	14.37	9	87.61	57 50	13.53	3	15.15	58 02	15.71	55	69.82	1 44
16.95	13	17.67	44 14	15.32	53	41.71	41 32	16.95	9	87.78	58 35	12.64	5	15.61	53 14	15.51	55	69.91	4 45
13.98	15	18.13	47 42	15.51	53	41.81	44 16	15.71	14	88.97	58 54	16.45	9	16.78	55 02	16.61	59	70.79	0 50
16.06	16	18.26	47 11	13.44	53	41.88	45 45	15.84	19	90.13	57 23	16.06	12	17.47	58 11	15.64	11 4	72.08	1 13
16.06	16	18.44	46 44	15.84	10 32	64.34	53 42	16.06	20	90.26	50 47	13.36	14	17.99	57 01	16.95	6	72.49	6 51
15.84	19	19.13	41 00	16.95	33	64.50	57 22	16.37	20	90.30	57 35	16.21	16	18.45	53 50	16.06	14	74.49	6 27
16.95	20	19.27	49 50	16.95	34	64.85	51 37	16.06	20	90.36	50 31	16.95	17	18.52	56 17	15.20	16	74.98	5 58
16.95	20	19.42	49 43	15.51	35	64.92	54 49	16.61	23	91.07	58 30	14.48	18	18.78	57 08	16.37	17	75.19	7 32
15.99	24	20.34	49 57	15.64	36	65.33	51 04	16.95	24	91.26	57 33	13.03	20	19.36	51 40	16.06	18	75.34	8 41
16.95	25	20.61	40 56	16.61	40	66.21	51 18	15.99	25	91.56	56 02	16.37	24	20.17	53 15	14.53	18	75.48	1 07
16.21	29	21.52	45 48	15.99	40	66.21	57 04	16.45	26	91.68	53 16	16.21	26	20.70	57 22	16.76	20	75.93	0 53
10.91	30	21.71	44 21	15.51	43	66.84	59 53	13.89	27	91.98	59 36	16.95	26	20.79	57 35	14.53	20	75.97	6 30
14.97	30	21.77	49 51	16.45	45	67.31	57 49	16.45	28	92.29	58 44	16.95	27	21.03	58 32	16.14	22	76.32	9 49
15.39	34	22.80	45 06	16.95	47	67.86	58 45	15.84	29	92.42	57 15	15.09	29	21.44	50 43	16.76	24	76.76	4 56
13.89	35	22.88	42 16	10.54	48	68.17	53 30	14.27	29	92.54	51 50	16.95	29	21.59	50 20	15.84	30	78.19	7 29
16.95	36	23.33	42 11	14.63	53	69.39	53 05	16.06	30	92.70	57 50	15.09	40	24.10	54 42	11.83	31	78.41	3 45
14.91	40	24.20	43 48	12.07	56	70.15	54 48	16.95	30	92.83	51 48	15.84	41	24.43	55 24	16.61	31	78.51	2 28
13.23	42	24.65	49 48	16.61	11 2	71.52	52 45	16.95	33	93.48	58 38	15.84	41	24.49	55 02	16.37	33	79.07	9 13
15.20	42	24.66	43 42	16.06	5	72.17	58 24	15.84	33	93.55	58 21	16.37	41	24.51	53 22	15.84	34	79.31	6 49
15.32	48	26.15	41 44	15.99	6	72.41	57 04	16.76	36	94.16	59 46	12.99	42	24.53	50 06	14.63	37	80.01	5 26
15.77	51	26.74	49 42	14.48	6	72.57	59 11	15.20	37	94.44	55 04	16.76	48	26.20	59 52	14.74	38	80.16	5 59
15.99	51	26.74	49 21	15.99	10	73.45	54 01	15.51	38	94.70	58 49	15.32	54	27.64	58 56	14.80	38	80.32	5 38
15.77	53	27.39	49 56	16.95	13	74.06	55 27	16.06	39	94.89	59 39	15.84	56	28.03	58 34	15.39	39	80.43	2 04
16.06	55	27.88	49 20	15.84	14	74.29	52 24	14.12	40	95.12	50 57	15.03	58	28.52	57 45	16.95	39	80.52	2 33
12.29	56	28.06	47 29	13.80	16	74.94	58 26	16.06	49	97.26	52 34	12.64	59	28.81	54 50	13.75	40	80.70	9 53
14.27	57	28.22	48 09	16.45	17	75.15	56 03	15.32	50	97.63	53 51	16.61	15 5	30.20	51 56	14.03	42	81.26	2 21
15.71	59	28.76	48 52	15.09	21	76.04	59 41	16.95	50	97.63	50 25	15.84	5	30.28	52 13	15.99	43	81.34	9 03
15.64	15 0	29.05	44 51	16.06	23	76.47	50 22	15.99	54	98.66	53 25	16.06	7	30.75	54 30	15.09	44	81.55	2 14
16.95	2	29.40	48 25	13.23	26	77.26	50 39	13.53	56	98.97	56 41	15.84	16	32.91	56 45	14.91	45	81.79	6 02
15.39	2	29.43	45 16	14.63	27	77.53	58 05	9.60*	58	99.50	55 04	14.63	18	33.35	56 24	15.84	48	82.53	2 35
16.61	4	29.88	43 08	13.23	31	78.47	53 37	15.84	13 0	0.12	51 06	16.61	18	33.46	52 33	16.95	48	82.55	2 16

25 prec. + 75 sec. + 8′ 11″.

651—700				701—750				751—800				801—850				851—900			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.32	11 48	82.61	6 44	16.37	13 35	8.44	9 19	15.84	15 15	32.68	1 15	16.76	11 21	76.12	12 11	16.06	12 56	99.01	13 19
15.99	48	82.67	6 11	16.06	38	9.05	6 15	16.37	16	32.75	5 50	16.06	23	76.52	16 02	15.84	13 0	0.12	13 39
16.37	52	83.57	1 52	16.76	38	9.17	3 05	15.03	18	33.24	5 55	16.95×	24	76.79	18 53	16.95	1	0.17	17 03
16.61	54	84.10	4 51	15.58	39	9.48	0 04	16.95	19	33.57	3 40	15.39	24	76.88	10 04	16.45	1	0.33	17 15
13.44:	57	84.88	8 37	15.71	43	10.47	4 52	15.20	21	33.99	1 42	16.61	24	76.94	11 08	15.84	2	0.53	18 30
15.39	12 0	85.47	8 30	15.84	44	10.74	9 03	13.44	22	34.28	8 24	16.45	26	77.27	12 03	15.84	4	1.07	19 10
15.84	2	85.93	0 51	14.37	48	11.70	9 28	11.93	24	34.68	3 12	16.06	26	77.33	17 04	16.21	5	1.17	19 02
15.84	3	86.15	4 10	16.06	49	11.76	1 45	16.95	28	35.62	0 03	15.84	27	77.65	19 17	16.06	7	1.79	14 42
16.06	3	86.35	2 06	15.99	49	11.89	4 40	15.71	32	36.59	1 00	15.84	28	77.81	16 42	15.39	8	2.01	18 48
15.71	5	86.72	9 41	16.37	50	11.97	7 28	15.39	33	36.82	8 03	16.76	31	78.48	10 14	15.20	9	2.20	13 29
16.95	7	87.11	1 42	15.71	50	11.97	1 39	16.95	34	37.08	5 21	14.80	32	78.67	11 38	16.06	13	3.12	17 56
16.61	7	87.22	1 06	15.84	50	12.09	4 12	15.84	35	37.41	1 37	15.64	33	79.11	19 38	12.64	17	4.15	18 45
15.32	10	87.84	7 11	14.48	53	12.79	4 01	15.39	38	38.09	5 51	16.76	34	79.22	17 24	14.63	17	4.15	11 15
15.99	11	88.07	8 27	16.45	53	12.87	3 09	13.15	40	38.68	0 28	16.06	34	79.29	15 17	13.80	26	6.19	13 41
14.12	11	88.27	1 19	14.12	59	14.17	7 31	15.99	41	38.81	3 07	16.06	38	80.24	11 31	16.76	31	7.39	17 38
16.95	12	88.37	7 31	13.36	14 4	15.43	5 20	15.09	42	38.99	8 51	16.06	40	80.60	15 49	13.80	31	7.57	14 20
16.95	12	88.48	9 01	14.97	4	15.45	9 56	16.95	42	39.03	2 18	15.03	41	80.87	12 49	16.95	33	8.06	14 13
16.95	19	90.05	8 37	15.32	10	16.99	9 20	16.06	45	39.92	9 08	16.95	42	81.16	14 08	15.71	35	8.43	14 38
15.99	23	91.14	0 27	16.61	13	17.67	3 06	14.12	49	40.82	8 13	14.27	43	81.37	18 01	14.63	37	8.91	10 44
15.20	27	92.04	1 05	15.32	15	18.09	5 34	16.06	49	40.90	8 20	16.76	48	82.59	16 41	16.06	39	9.35	17 42
16.37	29	92.49	8 51	16.37	15	18.21	3 26	16.21	52	41.52	4 40	16.45	48	82.65	12 52	16.61	40	9.76	14 04
15.84	30	92.67	7 36	15.99:	18	18.81	8 43	15.99	10 26	62.74	18 49	14.80	48	82.65	14 27	16.95	43	10.45	16 02
16.95	32	93.16	1 25	16.61	25	20.58	0 29	15.71	26	62.74	11 05	16.95	52	83.69	14 55	15.09	44	10.54	19 52
16.37	32	93.32	7 53	14.22	27	21.09	8 22	15.39	28	63.37	16 12	16.95	53	83.86	15 46	14.53	46	11.21	18 29
15.84	37	94.53	3 32	13.89	28	21.33	8 14	16.95	29	63.66	10 02	15.51	55	84.21	11 11	12.39	49	11.83	10 27
14.03	39	94.91	3 09	16.95	33	22.56	3 40	13.89	33	64.58	16 59	14.53	12 1	85.74	16 21	16.95	51	12.21	14 59
15.71	49	97.45	8 46	16.06	36	23.20	0 42	16.06	35	64.92	10 04	15.64	7	87.22	16 33	16.95	53	12.83	13 19
14.53	53	98.30	9 32	13.44	36	23.30	2 09	15.84	35	65.14	18 21	16.95	9	87.64	19 06	16.06	54	13.02	18 31
14.91	55	98.85	7 24	16.21	40	24.15	2 01	10.99	40	66.12	12 27	15.51	10	87.87	10 35	16.06	55	13.35	11 10
14.74	58	99.62	2 37	16.06	43	24.75	0 08	15.99	42	66.81	13 20	15.09	11	88.15	16 55	15.99	14 0	14.44	16 34
16.95	13 1	0.30	4 43	16.45	46	25.63	6 23	16.76	43	67.03	12 02	14.86	15	89.05	19 48	10.76	2	14.85	18 17
16.06	3	0.77	7 21	16.06	47	25.87	6 01	16.21	45	67.50	14 17	12.06	16	89.27	18 34	16.14	3	15.08	19 47
15.84	4	1.08	2 20	15.64	47	25.93	0 13	11.35	47	67.99	15 24	15.99	20	90.28	17 01	15.84	3	15.23	16 39
12.64	5	1.19	8 10	16.45	48	25.96	3 51	16.95	52	69.07	18 12	15.39	24	91.38	19 53	16.06	3	15.29	11 10
14.74	8	1.93	5 18	16.45	48	26.05	8 15	15.39	55	69.74	17 51	15.71	25	91.44	17 10	11.67	5	15.57	18 48
16.06	8	1.97	9 05	16.95	51	26.88	8 32	11.06	11 0	71.15	19 36	14.80	25	91.64	13 39	16.61	14	17.81	10 01
8.56*	9	2.19	3 27	15.84	52	27.10	8 32	14.27	0	71.16	19 27	16.61	26	91.86	14 51	15.09	17	18.58	17 19
15.64	9	2.25	0 09	16.06	53	27.16	0 53	15.09	0	71.17	16 02	15.99	27	92.06	15 45	16.45	21	19.48	16 01
16.76	11	2.67	3 07	15.84	54	27.51	5 12	15.39	1	71.40	14 10	15.71	27	92.12	13 26	15.20	22	19.90	13 32
15.64	12	2.93	3 40	15.39	54	27.63	6 04	14.37	4	71.97	14 32	16.76	28	92.34	18 35	16.45	23	19.93	14 42
16.95	12	2.96	5 06	15.71	58	28.60	3 43	15.03	5	72.34	15 23	13.66	28	92.37	17 05	16.21	25	20.46	11 19
16.76	13	3.16	7 16	15.84	59	28.74	2 31	11.55	7	72.70	13 45	14.63	30	92.85	11 54	16.14	26	20.69	19 46
15.20	14	3.35	1 41	16.95	15 0	29.02	2 54	15.84	9	73.17	15 34	15.84	32	93.18	16 36	14.91	32	22.09	14 23
16.45	14	3.45	6 13	13.03	3	29.70	8 54	14.12	12	73.95	11 03	15.20	42	95.67	17 43	16.61	33	22.36	13 06
16.61	18	4.23	9 20	16.45	5	30.13	4 59	13.23	12	74.06	17 34	16.95	42	95.71	16 50	10.52	33	22.41	18 22
16.06	23	5.52	6 46	14.12	5	30.26	7 43	15.20	15	74.73	11 50	11.68	43	95.79	19 06	11.66	35	22.87	14 34
16.21	26	6.29	7 25	15.39	7	30.65	2 20	16.61	15	74.79	14 04	15.84	43	95.81	19 42	13.98	35	22.89	14 49
15.03	30	7.15	5 55	16.21	10	31.36	3 29	15.84	15	74.79	16 48	16.37	43	95.99	13 20	15.71	35	22.97	12 31
15.20	31	7.40	9 26	15.84	11	31.55	5 12	12.64	16	74.80	18 47	16.95	50	97.57	10 42	13.89	40	24.16	14 25
14.27	34	8.17	7 26	15.99	11	31.71	2 54	16.61	20	75.82	16 33	14.22	55	98.87	19 13	15.71	41	24.27	10 44

25 prec. + 75 sec. + 8′ 11″.

901—950				951—1000				1001—1050				1051—1100				1101—1150			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.53	14 42	24.63	19 47	12.01	11 6	72.60	20 15	16.95	12 52	97.98	25 01	15.64	14 31	21.86	26 13	16.06	10 28	63.42	38 35
14.91	46	25.53	12 21	15.32	8	72.89	21 59	16.95	53	98.27	28 54	16.21	31	22.02	28 50	14.80	33	64.62	31 26
16.95	46	25.68	12 00	16.61	9	73.22	25 05	16.61	55	98.82	23 36	16.21	33	22.37	24 01	16.76	36	65.33	35 03
13.15	47	25.93	19 51	16.95	15	74.69	22 49	15.03	57	99.25	26 36	15.51	38	23.70	22 19	16.37	49	68.51	36 45
11.83	49	26.29	12 05	16.06	24	76.79	21 31	15.84	59	99.78	22 18	16.61	39	23.93	26 03	15.03	50	68.76	32 03
15.84	50	26.58	18 39	15.51	24	76.89	21 41	16.45	13 0	99.88	26 17	15.84	40	24.02	21 54	15.51	50	68.81	31 22
16.61	53	27.29	16 02	15.99	24	76.97	28 25	16.61	0	0.01	24 52	15.09	41	24.25	23 01	15.84	51	69.02	34 09
16.95	58	28.53	10 38	16.95	25	76.99	29 58	16.76	2	0.56	21 51	15.39	42	24.68	21 01	15.71	51	69.03	34 44
16.95	59	28.65	14 32	15.32	25	77.08	23 42	15.09	2	0.58	29 02	16.06	47	25.71	29 53	15.99	52	69.13	37 58
12.64	59	28.69	15 18	15.51	28	77.79	22 35	16.06	3	0.72	29 15	16.61	53	27.18	27 40	15.64	56	70.11	39 41
14.91	15 0	29.06	15 27	15.20	30	78.26	24 06	13.40	7	1.58	20 12	16.21	53	27.19	23 49	11.00	59	70.91	38 04
13.80	4	29.81	16 36	16.21	31	78.57	21 34	16.95	11	2.59	27 38	16.95	58	28.35	29 08	15.99	11 1	71.23	30 06
15.09	4	29.97	11 57	16.95	32	78.79	20 46	16.61	13	3.06	28 43	15.84	15 3	29.53	22 00	15.51	3	71.78	36 31
16.61	6	30.42	19 19	16.95	37	79.92	23 47	15.20	14	3.48	20 50	15.99	3	29.71	21 23	14.74	4	72.06	31 24
16.14	8	31.00	10 11	15.71	38	80.24	20 10	15.39	15	3.67	20 41	16.76	4	29.80	29 20	12.83	4	72.11	31 58
15.51	13	32.04	19 21	16.61	38	80.30	27 31	15.84	16	3.84	27 54	16.06	6	30.30	26 32	16.95	5	72.30	36 47
15.51	15	32.46	17 40	15.64	39	80.48	29 01	14.74	23	5.50	20 48	16.95	6	30.42	25 07	15.64	8	72.95	31 24
15.20	19	33.61	13 24	15.32	40	80.74	21 52	16.21	26	6.21	22 47	16.06	7	30.51	22 35	15.32	10	73.44	38 22
15.71	21	33.90	12 46	15.32	43	81.47	25 41	16.95	30	7.35	29 40	16.06	7	30.51	20 34	15.71	12	74.07	39 23
16.21	21	33.97	11 41	15.99	43	81.51	26 12	15.99	31	7.48	21 11	15.64	8	30.95	21 28	15.84	14	74.53	39 34
14.74	22	34.30	12 51	15.03	44	81.72	28 19	16.37	31	7.48	28 57	13.84	8	30.96	29 29	16.06	15	74.68	33 04
15.09	26	35.26	16 33	15.71	46	82.22	28 59	16.95	32	7.64	25 47	16.06	12	31.85	20 39	15.51	16	74.95	38 54
14.63	30	36.19	11 24	15.03	46	82.24	22 52	15.51	33	8.05	26 39	15.64	18	33.33	29 07	14.80	16	74.95	31 42
14.27	31	36.52	16 26	15.09	47	82.44	28 00	16.95	39	9.40	24 46	15.99	23	34.44	29 00	13.75	17	75.15	37 46
16.21?	35	37.48	12 20	15.84	51	83.45	21 48	16.95	40	9.62	24 36	16.37	24	34.63	28 23	16.95	20	75.89	36 54
14.63	40	38.58	19 54	16.14	54	84.04	29 52	16.37	43	10.28	22 11	15.64	24	34.67	28 44	15.39	23	76.61	37 21
15.64	43	39.41	10 37	16.61	58	85.00	24 47	14.91	46	11.12	27 01	15.84	25	34.87	21 57	16.06	31	78.64	38 33
14.63	44	39.54	14 31	15.51	58	85.09	27 37	16.21	46	11.12	22 29	15.64	25	35.05	25 18	16.95	33	79.05	39 21
15.64	46	39.99	18 27	16.06	12 1	85.88	21 09	13.89	51	12.23	28 36	16.37	27	35.34	23 12	16.06	36	79.81	33 52
13.57	52	41.47	14 40	16.61	3	86.26	28 04	15.71	52	12.49	29 38	15.84	28	35.61	24 08	16.06	38	80.14	30 42
13.75	54	41.90	13 34	15.45	5	86.63	20 27	13.44	54	13.07	22 22	16.95	29	35.80	28 31	15.20	42	81.24	32 24
16.21	10 22	62.02	23 45	14.74	6	87.06	25 34	16.95	58	14.00	22 33	16.61	29	35.82	23 30	14.53	42	81.26	34 46
15.71	30	63.95	24 14	16.95	7	87.27	22 28	15.45	14 4	15.54	29 44	16.95	33	36.94	20 23	14.80	42	81.31	36 24
15.84	32	64.27	28 43	14.48	10	88.00	29 02	15.03	5	15.71	21 57	15.99	36	37.65	28 00	14.74	43	81.34	31 49
15.32	39	66.00	28 22	15.64	12	88.43	21 06	12.64	6	15.90	27 27	14.03	39	38.25	20 02	16.06	48	82.57	38 45
16.76	40	66.23	29 09	13.80	12	88.55	22 22	15.09	9	16.59	29 02	16.95	39	38.29	26 19	10.86	49	82.95	30 37
16.95	43	67.00	29 17	16.95	14	88.83	22 01	15.64	9	16.64	20 40	16.45	40	38.49	26 22	16.06	50	83.04	36 55
15.84	44	67.11	25 29	16.06	27	92.07	20 50	15.03	13	17.61	28 56	16.37	40	38.60	29 29	16.95	51	83.37	35 14
14.53	44	67.24	26 34	16.61	27	92.14	23 04	13.23	15	18.14	28 47	16.95	41	38.89	29 22	16.95	52	83.60	35 47
12.29	45	67.45	25 07	16.95	28	92.35	20 32	16.95	16	18.20	22 24	16.61	43	39.21	27 40	16.45	52	83.67	35 15
16.76	50	68.72	28 30	14.53	29	92.60	20 20	15.39	18	18.73	29 12	14.80	43	39.26	22 41	16.95	55	84.24	39 35
15.71	51	68.85	23 00	16.95	31	92.92	20 51	15.84	18	18.77	26 35	16.21	43	39.33	27 13	15.99	58	85.00	30 11
13.23	51	68.85	21 58	15.84	34	93.70	21 10	16.95	21	19.55	24 08	16.06	44	39.43	21 14	13.66	12 0	85.44	35 50
15.20	56	70.16	24 33	16.95	35	93.98	21 54	16.06	23	20.11	29 53	16.95	48	40.39	22 16	14.91	1	85.84	37 44
16.06	57	70.45	21 15	15.58	36	94.13	29 32	16.95	24	20.20	21 15	15.84	48	40.55	21 38	15.32	2	86.14	38 14
15.39	58	70.56	29 38	15.32	40	95.11	29 48	16.06	24	20.35	26 46	15.51	49	40.71	27 26	16.61	3	86.17	33 52
15.32	59	70.73	26 13	15.99	44	96.22	28 06	14.74	26	20.75	21 48	13.53	10 23	62.24	34 20	15.64	6	86.89	31 58
16.21	11 4	71.98	23 02	16.61	45	96.37	28 42	16.76	27	20.92	24 17	15.20	25	62.58	32 00	13.75	7	87.27	30 13
14.63	4	72.09	22 37	11.82	50	97.51	24 05	13.80	28	21.21	22 32	16.61?	25	62.65	39 23	14.80	8	87.53	35 24
16.95	5	72.21	23 20	15.20	51	97.83	28 13	14.91	28	21.26	22 37	15.51	26	62.91	39 12	15.32	13	88.67	39 24

25 prec. + 75 sec. + 8 11″.

1151—1180				1181—1210				1211—1240				1241—1252			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.63	12 14	88.93	31 23	15.99	13 30	7.11	30 29	13.44	14 31	21.92	36 44	13.36	15 35	37.35	37 10
15.45	18	89.80	30 19	14.53	34	8.13	34 03	12.64	31	21.97	34 37	15.32	37	37.79	32 03
14.80	19	90.23	38 49	16.45	34	8.16	38 33	14.27	33	22.30	33 06	16.4 1)ne	37	37.80	39 44
15.20	21	90.59	33 58	16.76	34	8.20	38 35	16.95	39	23.86	32 04	16.95	37	37.82	30 05
15.64	22	90.86	35 56	16.95	36	8.68	33 07	15.39	41	24.24	39 15	15.03	39	38.24	35 20
16.06	22	90.86	30 30	16.61	40	9.51	37 32	16.45	41	24.39	36 24	15.20	44	39.43	39 07
14.63	22	90.96	36 07	16.95	41	9.84	35 54	14.22	42	24.53	39 45	11.53	44	39.61	38 42
15.32	24	91.28	38 24	15.39	42	10.00	38 43	16.37	43	24.72	38 54	15.20	45	39.77	36 04
16.21	27	92.14	30 55	16.61	43	10.26	35 44	15.71	43	24.85	36 38	13.98	51	41.27	37 26
14.63	31	93.11	30 52	16.95	43	10.35	32 38	15.99	43	24.91	35 42	11.93	52	41.44	36 37
15.20	33	93.58	39 56	15.64	47	11.24	32 23	15.32	44	25.14	32 37	16.45	53	41.64	39 53
16.76	33	93.58	38 23	15.99	47	11.35	30 28	14.48	44	25.15	31 55	16.06	54	42.00	33 09
16.76	37	94.36	31 54	13.75	48	11.55	39 11	15.64	47	25.76	30 07				
16.45×	40	95.11	34 55	16.37	49	11.69	33 23	14.27	57	28.07	31 41				
11.59	44	96.13	30 03	15.99	49	11.87	32 51	16.45	15 6	30.45	39 59				
16.95	47	96.76	30 39	12.64	54	12.96	36 37	11.35	7	30.52	31 20				
12.46	52	97.97	34 20	15.39	56	13.40	35 45	15.71	9	30.98	37 34				
14.37	52	98.15	34 14	16.06	14 3	15.10	39 23	15.32	9	31.17	34 55				
15.71	54	98.54	37 02	15.84	7	16.15	35 43	15.32	12	31.72	38 18				
15.32	56	98.96	30 14	16.95	9	16.71	35 51	15.32	12	31.79	34 53				
15.51	57	99.37	33 01	15.20	10	16.88	35 01	16.95	16	32.70	33 41				
15.71	59	99.80	34 40	12.46	10	16.93	34 36	15.99	23	34.34	35 03				
13.23	13 2	0.59	34 41	16.21	11	17.12	33 36	15.99	23	34.43	30 05				
16.95	3	0.71	35 04	16.06	20	19.15	34 26	16.95	24	34.66	37 45				
15.09	7	1.79	37 54	11.74	21	19.55	38 29	15.71	24	34.70	34 19				
15.71	14	3.45	39 06	13.36	23	20.04	38 13	14.91	28	35.70	38 49				
15.20	21	4.98	34 50	14.63	26	20.60	38 12	14.12	29	35.91	37 08				
13.89	22	5.26	39 37	16.45	27	20.93	34 36	16.76	29	35.99	35 33				
16.76	27	6.60	39 48	15.84	29	21.34	38 14	15.71	30	36.01	33 59				
15.84	29	6.91	35 11	16.95	29	21.41	39 45	16.76	30	36.10	30 47				

25 prec. + 75 sec. + 8′ 11″.

0^h Area 92. Centre for 1900: $0^h\ 50^m + 0^\circ\ 10'$. -0°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.06	47 13	58.31	26 21	14.54	47 55	68.82	26 24	12.63	48 11	72.85	24 29	15.77	48 53	83.14	27 33	15.11	49 28	92.11	24 41
13.62	15	58.81	29 20	13.15	56	68.90	20 31	15.52	14	73.41	20 23	15.77	54	83.46	23 05	14.42	33	93.31	21 44
16.40	16	59.12	29 42	15.52	57	69.30	27 58	16.19	17	74.20	27 34	14.02	49 0	85.04	21 16	14.62	37	94.34	24 49
14.02	22	60.49	27 10	13.23	59	69.76	27 29	16.63	19	74.80	23 18	15.98	7	86.66	24 13	16.48	39	94.66	20 29
16.40?	29	62.18	24 25	10.74	48 3	70.66	22 23	14.42	23	75.69	26 34	12.04	7	86.67	26 59	13.23	47	96.64	24 00
16.82	31	62.67	21 45	15.52	3	70.74	25 23	16.48	24	76.07	25 19	13.23	12	87.96	25 34	14.14	50	97.48	21 11
14.83	49	67.28	27 58	15.98	5	71.14	23 45	16.06	28	76.87	20 56	14.62	18	89.45	21 38	15.77	51	97.75	26 54
16.14	50	67.59	23 47	12 05	7	71.77	29 13	15.85	43	80.66	21 40	15.72	20	90.01	20 46	12.63	51	97.85	27 19
15.64	51	67.66	22 32	15.72	9	72.15	25 52	15.72	46	81.61	24 44	15.35	27	91.85	25 25	15.35	50 0	0.00	23 10
10.38	53	68.25	25 42	15.93	11	72.71	25 44	15.72	48	82.07	28 24	12.44	27	91.85	29 29	15.48	5	1.16	20 06

25 prec. + 77 sec. + 8′ 10″.

1) Nebulous object, not in N.G.C.

Area 92.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ − ″		m s	′	′ − ″		m s	′	′ − ″		m s	′	′ ″		m s	′	′ + ″
13.42	50 12	3.05	23 15	16.14?	47 59	69.75	10 08	14.42	52 17	34.28	14 18	16.35	51 3	15.83	−8 31	15.35	49 38	94.49	2 26
16.06	12	3.09	28 16	16.27	48 8	72.07	15 10	15.93	22	35.42	16 06	16.48	8	17.05	2 43	15.03	40	94.92	6 50
16.82	13	3.36	28 01	16.14	18	74.45	11 29	14.83	24	35.88	18 30	10.13	14	18.43	8 42	14.91	44	95.91	7 47
16.19	24	5.96	28 15	15.72	21	75.21	18 24	16.82	47 17	59.24	2 54	15.77	16	18.94	6 03	14.02	58	99.44	2 45
13.23	29	7.22	23 27	15.07	21	75.21	19 50	13.23	18	59.39	1 17	14.02	23	20.79	7 48	14.14	59	99.75	8 02
13.03	29	7.25	29 19	16.14	24	75.95	16 47	11.19	22	60.49	6 30	15.64	25	21.15	8 02	16.82	50 1	0.23	3 08
14.91	30	7.42	25 50	15.64	26	76.44	10 45	16.35	23	60.64	7 29	14.22	28	21.99	5 16	15.85	4	1.04	8 51
16.82	39	9.76	20 04	12.13	29	77.34	10 35	15.15	24	61.00	3 03	15.93	30	22.37	3 16	15.35	11	2.67	1 49
12.44	51 1	15.18	29 10	10.99	47	81.69	12 33	16.48	27	61.74	4 17	14.62	41	25.20	0 52	14.83	14	3.52	7 58
12.44	8	17.07	21 58	16.19	48	82.01	13 09	16.06	31	62.78	0 20	14.91	41	25.20	8 50	15.31	21	5.31	4 36
16.63	10	17.58	22 11	16.63	55	83.78	13 06	15.72	34	63.49	4 19	14.95	41	25.21	6 29	14.95	25	6.34	5 50
14.14	23	20.65	25 05	16.35	49 2	85.60	16 18	13.82	41	65.29	7 30	16.27	46	26.40	1 59	15.23	26	6.55	8 51
13.23	23	20.73	27 23	12.83	7	86.68	10 51	15.77	50	67.52	6 04	16.82	47	26.78	7 36	11.98	32	7.93	3 47
16.06	30	22.52	26 30	15.93	8	87.04	10 35	15.11	55	68.69	7 11	15.03	49	27.19	1 35	16.27	34	8.57	9 06
13.62	32	23.09	26 59	15.72	9	87.34	17 04	15.77	48 0	69.95	2 37	8.31	52	28.03	5 19	16.19	36	8.99	9 48
13.23	33	23.30	26 27	13.23	26	91.49	18 51	15.72	2	70.60	6 02	16.82	59	29.72	0 53	15.72?	45	11.26	2 07
15.77	37	24.17	23 38	15.56	31	92.78	16 33	16.82	20	75.00	3 18	16.82	52 6	31.47	9 11	16.82	47	11.83	6 33
10.99	48	26.99	27 37	13.23	37	94.14	16 11	16.06	24	75.94	5 23	16.14	7	31.73	7 12	13.42	48	12.03	8 40
16.82	56	29.11	23 07	15.77	45	96.25	14 52	16.06	24	76.08	6 59	15.98	8	32.02	9 59	16.82	49	12.29	4 23
15.31	59	29.86	26 59	15.56	45	96.25	13 04	13.23	27	76.63	9 05	16.14	9	32.27	9 13	15.72	54	13.57	0 49
15.31	52 1	30.32	28 24	14.42	52	98.02	15 04	15.72	28	77.06	2 29	14.71	12	32.87	7 30	16.82	56	14.09	4 46
16.82	7	31.78	22 46	15.64	56	98.88	11 03	14.62	29	77.15	9 18	15.64	15	33.80	6 43	12.63	51 5	16.19	0 38
13.62	12	32.88	24 06	14.83	50 4	1.08	14 21	15.77	29	77.20	1 16	16.82	29	37.24	2 30	16.63	5	16.20	2 29
12.07	14	33.41	21 07	14.34	9	2.29	10 44	15.56	37	79.30	6 04	16.82	30	37.46	6 56	15.64	10	17.54	2 59
15.85	18	34.51	26 45	14.75	16	4.01	17 56	15.64?	55	83.78	7 25	16.63	30	37.53	6 03	13.62	11	17.65	1 13
15.98	20	34.98	22 47	16.82	18	4.39	11 06	11.16	56	84.08	1 20	12.83	31	37.74	−4 23	12.24	19	19.74	9 23
14.83	24	35.96	20 42	14.34	18	4.40	18 45	12.44	49 4	85.87	8 17	14.22	47 12	58.04	+1 07	14.14	25	21.23	6 22
16.82	31	37.79	29 33	16.02?	18	4.44	19 36	16.63	18	89.52	1 28	15.77	17	59.17	7 10	14.22	26	21.45	2 10
11.92	47 12	58.11	12 45	15.72	21	5.22	13 56	12.83	20	89.94	6 42	15.56	24	61.08	9 48	14.42	26	21.61	7 16
14.95	14	58.45	12 13	16.48	32	8.09	14 56	13.31	30	92.45	9 57	15.35	30	62.59	2 38	16.14	33	23.17	1 45
15.77	16	58.94	12 56	15.85	37	9.36	10 13	15.23	31	92.68	2 01	15.56	33	63.27	1 10	15.31	36	24.06	1 22
16.63	16	59.07	19 47	15.98	39	9.82	10 51	14.83	33	93.28	4 10	16.82	35	63.75	9 02	12.44	39	24.77	6 00
14.22	22	60.51	15 39	16.63	45	11.21	19 54	15.35	34	93.38	0 11	13.82	50	67.41	8 55	15.98	45	26.36	5 58
15.03	23	60.77	17 51	15.77	48	12.04	10 56	14.75	44	96.03	5 21	14.71	48 0	70.08	7 42	16.14	48	27.08	9 57
16.82	24	60.97	12 31	14.22	54	13.39	17 41	13.82	47	96.66	4 55	12.83	8	71.89	3 42	13.03	54	28.45	2 19
15.64	27	61.64	11 44	15.35	51 9	17.17	17 54	15.31	48	97.07	6 44	15.72	17	74.31	6 07	13.42	52 1	30.31	6 43
15.35	27	61.79	15 24	15.43	9	17.23	11 21	14.83	52	98.03	3 25	15.93	36	78.95	7 12	14.75	7	31.79	1 58
16.14	31	62.74	15 50	11.45	18	19.41	17 50	15.23	50 3	0.80	9 20	14.22	39	79.72	3 08	11.96	9	32.33	4 19
14.42	32	62.99	14 47	15.64	20	19.97	16 49	16.82	4	1.06	1 50	13.23	41	80.30	9 44	15.31	21	35.22	0 23
15.64	33	63.27	16 26	13.82	23	20.78	13 30	16.19	10	2.58	5 42	15.98	44	80.92	0 44	15.72	22	35.57	2 15
15.52	34	63.49	17 44	13.62	27	21.77	16 17	16.82	11	2.85	8 39	13.62	50	82.51	1 54	16.48	23	35.66	6 06
16.82	36	63.90	18 01	16.19	32	22.92	14 31	14.02	15	3.80	8 34	11.24	56	83.99	6 50	16.19	26	36.38	6 56
15.56	40	65.08	13 38	14.22	39	24.78	16 57	16.27	22	5.38	8 16	13.23	58	84.43	0 40	16.82	30	37.55	2 09
15.64	41	65.22	16 40	13.82	43	25.77	15 05	12.63	22	5.54	3 59	15.43	49 5	86.25	3 12	14.83	31	37.72	8 05
16.82	46	66.47	19 03	14.02	45	26.18	14 47	13.42	22	5.55	4 26	14.62	8	87.09	7 17	14.54	47 13	58.34	18 14
14.42	47	66.72	14 27	11.77	57	29.24	11 10	16.63	29	7.19	0 04	15.31	11	87.75	5 16	15.72	17	59.15	19 27
16.48	51	67.64	10 29	16.40	52 3	30.66	16 53	16.32	29	7.22	1 53	16.82	17	89.28	2 20	14.95	31	62.86	16 08
16.48	51	67.84	19 06	8.40*	6	31.43	11 57	15.43	47	11.82	4 54	15.72	23	90.76	7 42	13.82	33	63.24	17 49
14.02	51	67.85	13 44	15.64	10	32.45	12 28	13.23	54	13.59	2 46	13.82	26	91.49	8 32	15.52	34	63.47	15 50
14.91	59	69.64	17 18	15.35	10	32.57	18 06	15.35	57	14.19	0 24	13.23	29	92.34	+6 23	11.73	38	64.56	12 18

25 prec. + 77 sec. + 8′ 9″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.62	47 42	65.45	11 32	14.14	50 39	9.86	18 10	15.64	49 16	89.09	22 19	10.09	47 20	59.95	33 19	13.03	50 52	13.06	38 22
16.14	46	66.58	12 53	16.82	41	10.31	11 20	16.06	22	90.54	28 23	16.82	25	61.25	38 18	12.00	51 0	15.04	31 54
13.23	46	66.59	15 22	15.31	50	12.38	17 54	16.27	35	93.73	22 44	16.06	27	61.85	38 05	16.63	7	16.69	32 28
16.06	48	67.12	10 11	15.52	51	12.83	13 10	10.39	41	95.21	28 27	14.62	28	62.08	33 30	10.69	8	16.89	39 59
15.64	49	67.17	14 07	15.52	58	14.49	18 17	14.54	45	96.35	29 11	14.10	36	63.98	30 20	15.56	26	21.40	39 29
13.82	52	67.95	13 27	16.82	59	14.75	16 27	16.19	51	97.72	29 00	15.23	37	64.20	39 37	15.64	26	21.47	30 27
15.31	48 2	70.52	13 09	15.52	51 4	15.88	18 48	15.48	56	99.11	20 05	14.58	40	65.01	39 32	11.86	43	25.69	33 29
14.83	3	70.72	17 39	14.14	8	17.02	15 19	13.23	56	99.12	25 13	12.24	42	65.50	38 37	11.69	43	25.84	37 06
13.74	6	71.61	13 26	16.27	9	17.31	10 16	11.15	50 6	1.37	23 35	16.63	45	66.16	38 30	15.23	58	29.53	38 40
11.18	7	71.79	17 26	15.77	20	19.95	15 59	15.15	7	1.63	29 17	15.89	53	68.23	30 07	10.83	52 0	30.12	34 32
15.35	8	72.09	15 06	14.95	30	22.48	18 09	16.06	7	1.79	21 45	14.14	56	68.98	34 57	15.23	1	30.32	31 51
11.65	9	72.23	15 54	13.62	35	23.76	19 15	14.91	8	1.96	29 21	15.77	48 3	70.63	35 02	16.14	3	30.63	32 23
14.22	12	73.07	10 10	15.31	38	24.57	15 24	14.91	13	3.23	28 36	15.64	4	70.91	39 09	14.95	8	32.06	33 12
16.35?	15	73.67	18 07	12.24	45	26.13	11 33	15.43	16	4.00	21 40	12.63	4	70.95	37 41	14.42	15	33.67	32 49
11.64	16	74.01	10 59	14.54	55	28.86	17 47	14.75	19	4.84	27 28	15.64?	12	72.96	37 01	16.27	15	33.85	38 32
14.95	16	74.02	12 21	13.03	57	29.21	17 58	14.62	21	5.19	27 34	14.95	12	73.08	31 00	13.42	18	34.38	32 51
13.94	21	75.37	19 52	14.42	52 3	30.63	17 28	16.14	24	6.06	20 36	15.23	17	74.29	36 39	15.72	18	34.39	37 17
16.82	26	76.40	14 45	14.22	8	31.88	17 40	16.19?	30	7.38	25 36	11.21	22	75.56	39 05	15.85	18	34.48	38 38
16.82	27	76.64	10 45	14.62	10	32.61	13 26	12.44	31	7.80	22 11	13.62	26	76.40	34 51	13.42:	20	34.92	32 30
16.35	31	77.85	15 42	13.78	14	33.41	19 49	15.93	39	9.78	25 18	14.22	27	76.71	37 13	15.03	27	36.80	37 19
13.82	38	79.42	13 21	14.50	15	33.66	16 09	15.39	40	10.08	20 18	15.35	37	79.21	32 19	16.06	29	37.36	39 28
12.44	39	79.83	15 02	14.34	15	33.68	11 27	15.89	42	10.47	29 52	13.23	42	80.49	36 35	15.77	31	37.74	36 09
15.85	42	80.50	19 10	15.43	23	35.67	18 51	16.27	42	10.52	25 51	16.14	44	80.90	38 06	15.64	47 13	58.32	44 35
15.03	49 0	84.93	10 37	14.50	31	37.68	10 56	14.71?	47	11.76	22 40	14.95	45	81.33	32 20	16.40	18	59.43	47 21
14.50	2	85.42	11 07	14.83	32	37.95	15 09	14.46	51	12.63	20 28	16.82	47	81.69	36 35	15.23	23	60.69	43 33
16.82	5	86.27	18 53	16.82	47 14	58.52	23 41	14.42	52	12.92	20 23	12.75	50	82.46	39 47	15.93	25	61.24	40 01
14.50	6	86.60	13 30	15.35?	15	58.68	22 41	15.11	59	14.71	27 48	16.82	56	84.03	30 39	15.85	30	62.37	48 34
15.98	8	87.10	14 20	12.63	24	61.12	28 20	15.23	51 1	15.29	22 29	15.85	56	84.04	36 24	15.52	33	63.19	48 52
15.85	25	91.21	12 04	13.62	26	61.44	23 23	15.15	7	16.73	29 07	16.14	49 6	86.56	32 37	13.42	33	63.27	40 46
14.83	36	93.90	10 53	16.23	34	63.57	20 11	14.95	8	16.87	20 46	11.56	10	87.50	32 15	15.64	37	64.23	48 41
14.91	40	94.92	14 20	16.82	38	64.42	26 03	15.64	44	25.91	27 35	12.83	16	89.01	30 51	13.42	38	64.61	41 42
14.62	41	95.37	19 07	14.95	49	67.13	24 02	15.72	44	25.93	26 27	16.63	19	89.76	32 05	14.42	40	64.99	40 31
13.03	44	96.00	18 29	12.24	48 2	70.49	27 13	11.73	46	26.43	28 14	15.15	19	89.79	30 22	13.03	42	65.52	40 27
14.42	48	96.89	17 36	12.83	2	70.59	27 18	13.23	53	28.20	28 06	9.92*	41	95.22	33 32	14.91	56	68.87	40 52
12.63	51	97.70	11 29	16.14	7	71.84	29 15	15.43	53	28.26	22 39	13.62	43	95.76	36 56	15.15	58	69.59	43 41
8.74*	54	98.42	14 56	15.72	8	71.91	28 34	13.82	56	29.10	22 56	15.93	46	96.59	30 27	15.03	59	69.70	48 33
13.23	55	98.77	17 08	12.44	10	72.40	24 51	16.27	52 0	29.99	23 24	15.64	50	97.41	35 31	15.77	48 1	70.23	42 38
12.63	55	98.82	16 47	14.62	15	73.83	21 55	15.11	1	30.32	24 28	15.52	51	97.68	35 21	14.62	9	72.20	45 11
15.43	55	98.87	11 39	10.51	19	74.74	21 20	14.02	5	31.14	25 56	14.42	52	98.04	32 09	15.23	12	72.89	45 53
14.30	56	98.91	10 40	15.52	22	75.48	21 16	13.82	9	32.32	27 14	14.10	54	98.48	38 53	15.98	14	73.37	44 14
16.19	50 1	0.18	18 28	14.54	38	79.44	26 12	15.93	11	32.71	27 27	16.19	50 1	0.15	35 34	12.24	14	73.47	44 57
11.58	2	0.56	10 42	15.93	45	81.22	26 11	12.63	14	33.42	23 02	16.82	3	0.82	35 59	16.82	16	73.89	47 03
15.98	6	1.52	13 25	13.42	48	81.96	26 20	11.89	20	35.07	23 21	16.14	4	0.89	31 23	15.72	18	74.51	44 02
16.14	15	3.64	11 07	13.82	49	82.13	20 24	15.03	23	35.67	24 26	15.85	4	1.11	39 27	15.11	20	74.93	47 10
15.23	16	4.02	18 35	14.34	57	84.35	26 43	14.54	28	37.10	28 11	14.42	26	6.57	38 21	16.82	21	75.36	46 20
15.35	16	4.08	17 09	15.31	49 5	86.36	25 38	13.23	47 15	58.85	32 24	15.27	38	9.57	30 12	11.03	22	75.56	41 28
15.72	18	4.59	18 17	15.98	8	87.01	26 25	15.98	16	59.06	37 37	14.02	46	11.60	39 11	13.23	29	77.21	43 31
12.44	22	5.44	12 03	14.34	9	87.19	24 06	15.93	16	59.11	34 30	15.03	49	12.13	38 09	16.06?	40	80.10	44 15
16.06	24	5.94	12 34	15.35	11	87.63	29 39	15.23	16	59.11	30 00	15.93	50	12.40	32 50	15.15	41	80.27	44 10
15.35	30	7.45	15 38	15.56	15	88.66	22 21	16.27	17	59.35	37 47	16.48	50	12.51	37 54	15.52	42	80.37	49 50

25 prec. + 77 sec. + 8′ 9″.

551—560				561—570				571—580				581—590				591—593			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.40	48 53	83.20	48 26	13.62	49 39	94.81	41 17	15.93	50 6	1.62	49 52	14.02	51 9	17.21	41 14	14.02	52 16	34.11	44 47
11.73	55	83.85	48 46	13.42	44	95.90	48 30	15.23	7	1.63	44 31	14.83	12	17.95	42 21	15.23	18	34.55	44 50
14.83	57	84.15	49 46	15.85	46	96.40	45 14	14.95	8	2.04	42 06	15.77	17	19.31	49 29	16.82	25	36.18	45 26
15.98	49 4	85.91	40 35	15.52	48	96.91	44 24	15.11	25	6.15	49 13	16.82	24	21.00	42 10				
13.62	5	86.35	43 07	15.15	50	97.47	47 01	14.14	52	12.92	46 57	15.98	25	21.16	45 29				
14.91	21	90.14	43 39	15.64	53	98.31	43 09	16.63	57	14.30	41 02	14.30	39	24.75	48 23				
14.34	22	90.62	43 36	12.44	53	98.37	45 57	14.75	51 3	15.63	46 01	15.72	49	27.22	44 20				
13.03	23	90.73	45 13	16.19	57	99.24	44 32	14.95	5	16.21	48 19	13.23	52	28.09	40 36				
14.02	30	92.43	41 30	13.23	58	99.61	48 23	15.72	6	16.55	45 11	15.03	56	29.02	42 49				
15.11	37	94.31	48 18	15.64	50 1	0.34	44 40	16.63	9	17.20	41 31	8.06*	52 6	31.53	49 23				

25 prec. + 77 sec. + 8′ 9″.

1h Area 93. Centre for 1900: 1h 50m + 0° 20′. — 0°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.52	47 24	60.98	11 45	16.79	49 25	91.33	14 45	16.08	50 56	14.07	19 42	13.17	47 23	60.65	6 33	16.22	49 36	94.04	0 15
14.02	33	63.16	13 21	15.19	37	94.28	15 32	15.90	57	14.19	19 12	15.05	24	60.95	6 05	15.75	38	94.56	2 55
16.13	36	63.98	13 03	14.68	43	95.71	14 29	14.59	59	14.75	12 55	15.38	34	63.40	8 59	11.96	40	94.99	4 05
13.40	38	64.45	19 03	14.35	46	96.37	14 51	11.90	51 9	17.21	15 43	13.07	34	63.48	0 20	16.08	40	95.02	3 56
14.59	38	64.53	14 28	11.60	50	97.40	15 54	14.68	11	17.65	15 21	14.45	39	64.63	9 18	16.79	41	95.24	6 18
16.45	38	64.55	15 39	16.79	51	97.73	17 38	13.98	11	17.72	19 37	16.79	48 0	69.95	9 29	12.69	46	96.39	1 34
14.50	39	64.74	12 20	9.17	53	98.19	17 08	13.17	11	17.85	17 22	15.38	4	70.91	6 24	15.28	46	96.46	7 18
13.31	40	64.87	12 09	15.14	58	99.37	14 19	15.99	13	18.36	17 31	14.50	4	71.12	4 22	15.47	46	96.53	9 51
16.40	44	66.10	10 04	15.43	58	99.50	15 30	15.14	16	19.01	17 00	14.21	7	71.73	0 06	14.21	52	97.91	9 19
16.45	48	66.95	12 33	15.14	50 0	0.09	12 57	15.43	17	19.31	15 10	14.91	8	71.99	3 17	15.28	58	99.57	8 07
16.45	48	67.06	14 44	15.66	3	0.64	18 22	14.35	35	23.75	16 55	9.77	10	72.59	7 11	14.02	50 8	1.91	6 29
10.79	49	67.14	15 42	14.68	13	3.31	12 48	14.12	36	23.95	14 47	15.38	12	73.03	1 32	15.43	9	2.27	7 26
14.91	57	69.25	14 58	14.21	14	3.60	10 49	12.06	37	24.35	12 37	9.50	13	73.28	6 20	16.60×	11	2.77	0 16
14.12	48 15	73.85	17 12	13.31	17	4.30	13 23	16.79	40	25.09	17 46	15.05	13	73.31	2 58	16.79	11	2.84	3 15
14.50	19	74.72	18 27	16.22	18	4.49	17 42	13.40	41	25.22	15 38	14.68	17	74.35	7 53	15.14	13	3.34	8 07
14.02	20	75.05	18 12	16.79	19	4.64	12 55	12.93	42	25.54	12 03	15.52	23	75.79	6 55	16.79	15	3.83	3 05
16.22	24	75.88	14 31	16.22	22	5.54	13 30	15.85	54	28.59	17 20	13.40	24	75.92	5 20	16.22	16	3.94	3 33
15.38	28	77.04	13 57	12.93	25	6.14	18 22	15.90	57	29.24	13 46	15.28	27	76.67	4 11	15.75	20	4.88	4 27
15.66	28	77.07	13 48	14.87	31	7.82	10 21	15.61	58	29.49	19 07	14.50	40	79.90	2 58	16.45	23	5.80	4 42
15.05	33	78.22	11 01	15.66	32	8.10	19 01	15.28	58	29.52	16 28	16.13	41	80.35	2 32	16.22	28	6.89	2 17
15.90	44	80.97	19 13	16.79	34	8.44	17 24	14.59	52 6	31.46	15 45	15.61	43	80.83	2 53	15.19	33	8.24	5 23
15.61	50	82.52	19 21	16.79	36	9.12	18 02	11.24	15	33.67	13 16	15.61	49 11	87.63	5 46	14.45	35	8.70	5 14
15.61	52	82.92	13 34	15.14	39	9.77	19 58	16.36	16	33.94	11 05	14.35	17	89.18	4 17	13.88	45	11.34	7 06
10.44	56	83.98	18 52	16.08	43	10.80	11 11	13.17	22	35.48	19 37	16.79	18	89.53	0 06	16.79	53	13.16	5 41
15.05	59	84.80	10 39	13.64	48	12.04	18 14	16.31	24	35.93	18 19	15.85	19	89.66	9 12	16.22	54	13.41	2 19
13.40	49 0	84.91	14 14	14.59	51	12.65	11 19	13.31	47 7	56.76	1 44	15.43	22	90.57	6 10	12.69	54	13.53	3 33
14.02	6	86.41	19 16	11.56	53	13.29	18 35	16.79	9	57.29	4 36	15.52	22	90.62	9 48	15.90	56	13.98	7 31
15.66	11	87.64	18 50	15.19	54	13.47	16 00	16.13?	14	58.45	8 28	16.22	24	91.09	0 34	15.14	58	14.39	5 37
14.82	17	89.25	19 38	16.60	54	13.61	10 52	14.96	18	59.49	1 09	14.21	28	92.03	0 49	16.22	51 0	14.95	3 24
11.36	19	89.83	19 20	16.22	55	13.83	18 43	15.61	21	60.19	0 29	15.57	31	92.66	9 35	15.61	13	18.18	3 57

25 prec. + 77 sec. + 7′ 25″

Area 93.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn	α	x	$y+20'$	Int. magn.	α	x	$y+20'$	Int. magn.	α	x	$y+20'$
	m s	′	′ ″		m s	′	′+″		m s	′	′+″		m s	′	′+″		m s	′	′+″
16.60	51 13	18.33	−2 19	15.75	48 0	70.12	2 00	16.27	51 8	17.05	9 56	13.74	48 27	76.87	18 58	10.63	50 52	12.98	17 49
14.96	29	22.25	9 10	14.73	1	70.16	9 32	16.08	11	17.68	9 43	16.22	28	77.11	14 22	15.90	55	13.78	13 03
14.96	30	22.59	3 28	15.99	1	70.18	1 05	14.59	12	18.12	7 23	16.13	29	77.14	12 13	15.38	51 4	15.94	13 11
16.79	32	23.11	2 25	14.40	6	71.54	9 34	15.05	13	18.21	5 01	15.14	29	77.29	19 28	15.38	6	16.45	16 09
13.88	34	23.43	0 57	16.60	7	71.86	9 22	15.85	18	19.57	1 32	15.43	32	77.88	12 18	16.13	8	17.06	16 32
12.69	34	23.45	6 12	16.31	10	72.58	3 25	15.90	18	19.60	3 13	12.69	34	78.48	10 56	15.19	18	19.45	16 30
14.96	40	25.01	5 47	14.73	13	73.33	5 49	16.13	20	19.98	5 45	14.35	40	80.09	13 09	14.12	25	21.14	13 52
15.28	43	25.75	1 34	14.02	24	75.93	1 33	15.66	25	21.35	6 35	15.05	47	81.83	18 33	15.19	32	22.91	14 06
15.99	43	25.78	7 40	15.85	29	77.20	9 02	15.43	28	22.03	7 36	16.79	53	83.14	12 18	16.31	33	23.34	14 51
16.60	46	26.46	6 36	11.45	35	78.64	6 32	15.19	30	22.56	6 51	14.59	53	83.33	14 51	16.60	41	25.24	14 52
15.43	56	29.06	2 33	14.40	36	79.04	9 40	15.38	34	23.47	8 08	14.12	54	83.58	15 00	16.36	44	25.91	19 34
15.19	58	29.42	7 48	16.79	36	79.10	2 15	13.78	35	23.65	2 35	11.88	49 6	86.58	16 50	16.79	51	27.83	18 45
16.13	59	29.80	2 34	16.45	38	79.37	8 18	15.52	36	24.05	5 50	15.61	7	86.66	10 16	13.40	51	27.85	13 26
15.61	52 1	30.13	3 11	15.52	41	80.32	5 52	16.79	39	24.80	2 37	13.98	8	86.97	17 53	15.99	53	28.16	17 57
16.45	2	30.50	5 52	13.78	43	80.82	3 26	14.91	42	25.37	5 27	14.96	13	88.35	13 26	10.47	55	28.78	16 14
16.79	4	30.97	1 18	12.69	46	81.50	1 27	15.61	50	27.38	0 20	16.79	15	88.80	19 03	14.35	52 1	30.30	18 13
16.79	4	31.02	7 46	15.52	49	82.15	2 50	14.59	51	27.65	6 43	11.20	30	92.46	13 31	14.91	9	32.16	11 52
15.75	5	31.28	2 15	14.26	50	82.38	1 40	15.66	52	28.04	9 26	15.43	30	92.58	15 16	16.79	11	32.65	17 51
13.40	6	31.55	4 01	15.19	52	83.03	0 51	15.61	54	28.40	6 38	15.85	32	93.10	19 14	16.79	12	33.08	14 46
12.79	7	31.81	0 17	14.26	49 2	85.56	7 42	10.21	54	28.56	5 52	16.79	33	93.32	14 10	15.75	13	33.30	18 50
14.12	10	32.42	0 26	13.64	13	88.27	1 07	14.50	55	28.66	3 32	13.78	35	93.86	14 29	13.88	14	33.50	11 24
13.17	20	34.87	2 39	14.02	15	88.70	8 06	15.38	56	28.99	6 17	16.08	37	94.35	10 23	15.85	20	34.98	15 29
15.66	21	35.25	−3 29	15.90	20	90.04	3 52	15.94	56	29.12	0 28	14.02	38	94.46	17 38	15.24	21	35.31	19 34
15.90	47 5	56.26	+0 29	10.60	22	90.40	0 07	14.45	58	29.52	1 47	15.19	41	95.14	14 00	15.99	47 7	56.68	27 33
15.99	6	56.60	1 58	14.26	26	91.46	8 55	14.26	52 2	30.41	7 01	14.82	42	95.51	16 16	10.64	10	57.48	22 37
14.12	7	56.79	4 11	12.04	31	92.68	5 41	14.21	3	30.69	2 32	9.55*	42	95.60	17 36	15.52	16	59.12	21 21
13.31	9	57.36	3 46	11.94	32	92.88	5 56	15.90	9	32.26	2 57	14.59	44	96.02	11 37	15.52	17	59.18	29 01
16.22	11	57.80	2 33	16.79	38	94.59	0 42	14.31	23	35.83	9 50	16.79	45	96.24	16 50	15.61	22	60.39	26 01
10.89	16	59.09	2 50	15.99	39	94.72	4 17	15.19	47 9	57.30	11 37	15.05×	46	96.56	19 12	14.82	32	63.04	26 43
11.02	19	59.82	2 39	16.08	42	95.40	3 26	15.28	9	57.35	12 44	14.21	50	97.38	12 24	15.14	33	63.19	27 29
14.21	21	60.24	6 49	16.79	42	95.62	1 14	15.14	11	57.72	14 30	16.79	54	98.55	18 42	13.07	35	63.66	20 13
14.26	22	60.44	5 40	13.31	45	96.23	3 27	16.60	12	57.99	17 30	9.53	55	98.76	10 44	15.05	38	64.60	23 38
13.64	25	61.28	2 08	15.19	49	97.23	8 04	15.05	13	58.15	10 06	12.11	57	99.27	16 16	15.71	50	67.41	29 54
16.60	31	62.70	9 06	15.05	56	98.87	1 11	15.90	28	61.87	19 33	16.79	50 3	0.80	14 09	12.69	53	68.29	21 47
15.38	32	62.96	3 03	14.68	58	99.58	0 52	15.61	29	62.35	10 10	15.43×	4	1.02	12 32	16.79	48 1	70.21	20 46
15.00	32	63.00	9 54	12.93	50 1	0.23	3 17	16.08	33	63.24	12 37	16.27	4	1.02	19 46	15.85	4	71.02	25 12
14.45	34	63.48	8 48	15.19	4	1.04	3 45	16.60	38	64.56	14 55	15.75	15	3.78	13 00	16.08	10	72.44	23 50
15.38	35	63.78	8 46	15.90	6	1.54	4 35	15.66	44	66.02	14 23	13.55	18	4.51	13 55	14.96	13	73.32	28 53
13.17	39	64.75	0 04	16.08	6	1.60	1 42	15.90	51	67.67	14 54	15.05	20	4.92	19 14	16.13	17	74.16	28 55
16.36	40	65.09	2 33	15.38	7	1.64	8 24	15.61	52	68.11	11 59	15.61	21	5.25	19 07	16.79	17	74.17	28 49
15.43	41	65.23	6 00	9.38	11	2.70	7 05	15.19	55	68.71	17 11	16.60	26	6.46	19 11	15.61	18	74.40	27 03
14.35	41	65.36	3 22	13.17	18	4.58	5 27	13.64	58	69.50	14 44	16.79	30	7.38	15 32	15.99	20	75.08	28 24
16.79	43	65.68	8 42	15.99	22	5.41	3 03	14.82	58	69.54	11 53	16.79	31	7.78	13 50	15.38	27	76.67	21 46
15.05	45	66.33	8 54	11.20	27	6.71	9 23	15.66	48 4	71.00	10 39	14.73	33	8.27	13 44	15.75	33	78.18	24 33
13.83	51	67.74	0 25	16.45	29	7.31	6 07	14.91	10	72.57	17 40	14.82	41	10.26	18 12	11.56	36	79.01	28 07
14.40	54	68.38	9 49	15.14	38	9.47	9 22	15.28	13	73.32	19 10	15.61	41	10.37	19 49	15.33	39	79.64	29 55
15.75	54	68.60	1 33	16.79	56	13.91	9 08	16.45	22	75.39	10 22	16.22	42	10.59	13 54	14.21	46	81.51	24 09
14.91	57	69.26	2 23	14.21	51 1	15.29	0 55	15.05	24	75.93	15 21	16.17	47	11.72	19 52	16.31	47	81.68	25 33
16.60	59	69.85	7 44	13.78	2	15.59	6 06	16.31	25	76.14	14 22	12.69	48	12.05	10 37	16.60	48	81.96	20 10
13.64	48 0	69.96	+8 11	16.79	7	16.79	1 03	15.52	26	76.59	18 50	9.98	50	12.46	17 00	14.45	48	82.00	27 22

25 prec. + 77 sec. + 7′ 25″.

1^{h}

Area 93.

+ 0°

401—450				451—500				501—550				551—600				601—650			
Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.79	48 48	82.11	22 47	15.05	51 46	26.43	29 53	16.36	49 15	88.64	30 46	14.50	47 12	58.09	43 43	14.35	50 8	2.08	45 12
13.88	55	83.66	23 04	14.26	46	26.49	26 15	15.85	15	88.83	35 03	15.75	15	58.74	49 04	15.90	10	2.55	41 25
13.64	49 6	86.52	25 27	13.17	48	27.06	25 39	12.13	19	89.71	30 00	16.79	18	59.45	49 42	12.21	12	3.06	47 57
14.73	10	87.38	23 20	15.99	52	28.11	25 51	16.79	19	89.81	34 25	8.48*	29	62.34	45 48	16.79	15	3.86	46 43
11.87	12	87.87	25 48	15.24	59	29.65	20 03	13.17	23	90.83	38 05	10.84	33	63.20	43 03	16.13	16	4.01	46 27
15.43	24	90.89	25 02	16.22	52 1	30.17	27 16	16.60	29	92.20	37 30	16.79	34	63.54	44 13	14.96	20	5.03	46 43
12.23	29	92.15	24 19	16.79	1	30.29	23 56	15.90	36	94.08	38 03	14.21	37	64.35	45 54	16.45	22	5.39	45 36
16.79	30	92.44	23 03	14.59	2	30.40	25 51	12.69	38	94.46	39 18	16.13	42	65.39	47 03	15.61	22	5.57	43 44
15.61	30	92.52	26 16	16.79	2	30.61	27 02	16.60	50	97.40	37 02	16.79	44	66.04	48 41	14.12	25	6.33	42 31
13.64	35	93.66	24 53	16.79	6	31.43	23 17	13.64	50	97.53	38 00	14.91	48	66.96	44 25	16.60	39	9.78	41 53
15.28	39	94.78	23 23	14.50	8	31.94	28 35	15.43	51	97.74	34 33	15.66	49	67.21	41 42	16.60	49	12.19	47 41
15.38	42	95.43	28 02	16.60	9	32.16	29 57	13.17	54	98.38	33 55	15.38	57	69.25	49 19	15.99	54	13.55	43 40
16.79	44	96.02	29 16	15.43	10	32.47	25 57	15.99	55	98.74	36 14	14.96	48 3	70.77	44 12	15.14	51 0	14.90	40 20
16.08	50	97.48	24 21	15.75	11	32.77	27 18	15.99	50 9	2.35	33 10	15.61	5	71.13	43 01	11.97	3	15.77	47 45
12.93	50	97.49	21 08	15.90	13	33.19	24 35	15.00	10	2.53	30 23	15.85	8	72.05	44 48	16.31	11	17.65	48 42
12.69	53	98.23	27 09	15.38	13	33.27	23 03	16.60	11	2.78	35 19	15.38	15	73.68	48 53	11.83	12	17.90	46 33
11.96	53	98.29	23 26	15.90	15	33.87	29 55	15.52	16	3.89	37 01	15.85	19	74.63	41 32	15.33	17	19.17	40 02
15.28	50 5	1.26	22 07	15.52	18	34.39	22 32	12.93	19	4.78	32 43	14.45	21	75.17	46 02	15.85	28	21.89	45 13
12.93	7	1.66	20 10	16.60	20	35.05	21 54	13.64	22	5.49	31 50	13.59	26	76.42	40 06	14.96	30	22.39	45 56
15.61	7	1.80	29 55	15.28	47 11	57.81	36 22	14.50	23	5.69	35 13	15.66	26	76.51	46 34	13.78	40	25.04	44 58
16.36?	10	2.52	28 28	16.60	15	58.70	33 31	11.79	23	5.76	36 12	15.90	31	77.87	44 23	12.04	51	27.68	46 06
11.93	12	2.94	29 40	14.50	17	59.21	34 54	16.79	26	6.45	32 29	13.88	32	77.98	48 53	16.79	51	27.68	42 31
15.14	14	3.37	23 54	15.75	35	63.63	38 40	14.82	26	6.52	31 49	14.91	34	78.55	44 51	14.45	51	27.78	40 20
11.87	18	4.53	27 17	12.69	36	64.08	36 09	16.79	35	8.84	35 38	15.52	36	79.06	45 08	16.79	53	28.21	49 34
14.45	20	4.97	29 32	14.35	38	64.55	30 05	15.28	36	9.03	35 26	15.52	41	80.29	45 25	16.79	58	29.54	43 34
15.38	22	5.58	29 30	16.79	38	64.60	30 32	10.81	37	9.16	36 51	16.13	42	80.49	44 18	16.79	52 4	30.93	40 30
12.69	25	6.15	24 36	15.99?	41	65.23	37 42	13.59	39	9.64	39 36	13.31	43	80.67	43 38	16.60	4	31.02	46 43
15.28	27	6.83	20 43	16.79	41	65.23	38 51	15.52	42	10.39	38 52	15.85	44	80.89	44 46	16.45	8	31.97	49 43
12.18	32	8.00	20 16	15.99	42	65.40	38 12	15.43	50	12.38	37 20	16.79	44	81.02	46 56	16.45	11	32.70	41 40
15.05	35	8.69	22 52	15.24	47	66.80	39 34	16.17	59	14.87	39 59	15.66	49	82.35	41 54	16.45	12	32.97	48 32
13.31	37	9.34	24 14	15.85	51	67.81	30 53	16.79	51 12	18.07	33 16	16.79	52	83.09	49 48	16.79	47 5	56.15	59 24
14.96	40	9.97	20 47	15.52	56	69.07	34 47	15.66	13	18.27	38 56	16.79	49 5	86.27	48 00	14.45	8	56.93	52 11
10.32	41	10.25	24 57	15.47	57	69.16	39 53	15.61	19	19.83	35 33	15.61	9	87.17	40 22	14.35	17	59.34	50 13
16.60	41	10.36	20 16	12.10	48 3	70.68	30 46	14.35	21	20.27	36 18	16.45	9	87.29	43 11	15.85	19	59.73	52 21
15.38	42	10.47	29 28	16.79	14	73.57	31 40	15.24	21	20.30	30 22	13.40	10	87.45	48 36	14.73	20	59.89	52 03
14.26	43	10.69	26 54	13.55	17	74.15	30 35	15.66	31	22.76	32 44	15.19	13	88.32	43 45	15.14?	29	62.30	57 09
16.79	43	10.84	22 52	16.79	20	74.92	32 43	14.02	31	22.86	30 55	11.45	19	89.71	46 38	15.85?	29	62.32	57 32
15.66	48	11.98	22 02	12.04	24	75.99	31 19	16.79	37	24.16	33 51	15.61	19	89.81	49 48	15.75	29	62.35	56 05
15.14	48	12.01	20 52	14.59	25	76.18	37 57	15.85	44	26.02	34 14	10.71	23	90.72	43 23	14.21	38	64.57	59 59
14.87	59	14.78	20 07	15.75	30	77.53	33 51	16.79	45	26.14	39 14	16.79	26	91.50	43 17	15.66	40	65.04	50 53
15.28	59	14.82	29 59	12.93	30	77.60	37 29	14.73	51	27.73	37 10	16.36	27	91.83	43 45	12.93	50	67.42	58 56
14.96	51 1	15.19	20 45	16.60	31	77.63	32 04	15.90	52 3	30.86	35 22	15.14	36	93.87	40 14	14.91	50	67.53	56 02
14.50	1	15.27	20 24	16.79	34	78.45	32 13	15.52	7	31.84	34 48	15.52	44	95.91	46 32	12.93	50	67.57	57 01
14.02	14	18.50	25 54	14.12	41	80.31	33 24	15.90	10	32.50	38 03	14.68	51	97.65	45 35	15.43	58	69.52	57 39
16.60	14	18.52	21 12	14.59	48	81.94	37 12	16.45	10	32.57	39 59	15.19	59	99.84	48 20	14.02	48 0	70.09	57 45
13.88	20	19.90	28 32	16.60	49	82.22	30 12	15.90	12	32.99	37 46	15.75	50 1	0.26	43 50	15.19	1	70.18	59 15
15.71	21	20.33	29 36	15.05	52	82.87	39 30	16.79	13	33.23	38 37	15.61	1	0.29	41 54	14.73	2	70.39	53 34
15.52	24	21.07	25 57	15.38	49 0	84.96	36 27	14.12	19	34.68	39 53	15.85	3	0.64	45 27	12.69	4	71.03	51 48
16.13	35	23.62	28 40	16.36	4	85.92	35 54	13.98	21	35.19	36 33	15.43	3	0.71	40 27	15.14	4	71.04	53 37
15.14	35	23.65	21 55	15.05	6	86.46	34 48	15.90	47 4	56.07	48 56	12.93	8	1.94	45 49	14.35	6	71.62	56 15

25 prec. + 77 sec. + 7′ 25″.

1^h

Area 93.

+ 0°

651—670				671—690				691—710				711—719			
Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.75	48 8	72.11	57 56	15.28	49 13	88.36	52 58	16.13	50 40	9.92	56 29	16.45	51 36	24.06	53 37
13.40	12	72.98	50 07	16.79	21	90.21	58 37	16.79	46	11.46	51 41	16.08	37	24.26	59 34
15.85	18	74.62	56 51	15.99	21	90.32	50 38	15.52	47	11.83	54 04	15.85	45	26.13	53 33
16.13	21	75.16	50 44	14.26	23	90.65	50 40	14.73	52	13.05	53 22	16.79	58	29.57	59 24
15.43	24	75.99	56 10	13.17	30	92.51	53 12	10.86	53	13.24	51 09	16.79	52 2	30.61	51 42
16.36	27	76.71	55 02	14.21	38	94.41	52 15	16.08	54	13.58	55 52	14.91	8	32.00	56 51
15.38	28	76.95	53 31	14.73	46	96.52	52 35	16.60	55	13.81	56 10	12.69	10	32.61	51 10
15.99	31	77.78	53 05	13.64	48	96.92	55 05	15.61	57	14.30	53 15	15.66	15	33.64	58 05
14.68	33	78.19	54 04	15.90	51	97.64	53 05	14.73	59	14.83	55 55	13.17	21	35.22	56 57
16.79	53	83.32	53 52	15.43	52	98.09	51 06	14.45	51 1	15.31	50 35				
15.05	57	84.37	50 39	15.90	55	98.81	51 30	15.85	8	16.93	51 16				
15.66	59	84.65	55 58	15.99	57	99.20	59 01	16.22	9	17.20	59 26				
16.13	59	84.71	50 40	13.98	50 10	2.55	55 44	16.79	10	17.61	50 33				
15.38	49 0	85.08	54 38	10.38	11	2.65	58 12	16.79	12	17.94	52 42				
14.26	2	85.55	50 42	13.40	17	4.23	57 01	15.43	16	19.00	58 32				
15.28	5	86.13	57 20	16.31	19	4.76	53 49	15.38	17	19.23	50 45				
15.52	5	86.27	51 25	14.50	27	6.87	52 33	14.91	24	20.95	58 47				
13.64	6	86.38	57 23	14.12	30	7.38	51 52	14.59	32	22.99	56 33				
16.79	8	86.96	52 29	14.73	39	9.77	59 05	16.60	33	23.27	52 38				
13.17	10	87.59	54 51	15.85	39	9.80	59 23	16.60	34	23.61	51 53				

25 prec. + 77 sec. + 7′ 24″.

2^h

Area 94. Centre for 1900: $2^h\,51^m + 0°\,10'$.

— 0°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.49	48 8	57.06	26 03	16.68	49 2	70.57	22 04	16.68	50 25	91.25	23 35	15.23	51 40	10.00	26 17	15.12	52 28	21.97	26 14
16.68	8	57.12	21 24	15.40	4	70.93	25 08	13.82	26	91.43	21 03	16.68	40	10.10	27 05	15.23	36	23.89	21 54
14.61	12	58.11	29 37	15.40	4	71.11	28 16	16.49	34	93.46	27 28	16.49	42	10.45	23 36	14.86	36	23.94	27 06
16.34	13	58.19	24 37	14.76	5	71.13	21 36	15.23	35	93.63	20 51	12.66	44	10.95	29 29	15.52	41	25.20	29 32
16.34	16	59.06	24 04	13.48	9	72.22	28 46	16.21	38	94.53	22 42	15.82	45	11.35	28 02	15.23	49	27.19	29 17
10.38	18	59.50	23 36	16.68	10	72.52	20 21	15.40	39	94.80	21 09	14.51	49	12.16	23 03	11.75	53	28.32	28 49
16.01	18	59.58	29 55	15.63	17	74.16	20 23	16.14	47	96.77	24 11	16.14	50	12.48	26 47	15.02	53 2	30.60	21 48
12.39	22	60.56	22 30	15.88	21	75.18	25 17	15.23	47	96.78	26 49	16.14	51	12.65	25 27	15.88	3	30.83	28 59
12.66	24	60.96	29 14	15.57	21	75.35	28 02	12.66	58	99.46	22 34	15.23	55	13.81	20 42	15.23	4	31.00	26 24
16.14	29	62.16	22 25	16.68	22	75.49	23 33	13.40	58	99.48	29 04	13.78	52 5	16.18	24 59	12.00	9	32.33	25 38
9.85	31	62.80	21 17	15.82	28	77.03	24 34	16.68	58	99.61	24 37	13.06	9	17.28	28 26	13.78	11	32.85	21 34
16.68	31	62.86	25 24	7.18*	40	80.03	27 22	16.14	59	99.85	29 11	15.82	11	17.66	24 24	14.97	15	33.63	24 53
16.34	38	64.40	29 32	14.23	41	80.26	29 58	16.68	51 5	1.33	24 11	15.82	12	18.03	28 52	15.02	16	33.97	24 51
15.82	38	64.57	22 17	13.06	45	81.22	21 57	15.52	7	1.76	23 11	15.12	12	18.09	29 54	16.49	23	35.85	21 58
16.68	41	65.32	21 46	16.14	55	83.73	24 16	15.69	8	1.96	27 35	14.86	14	18.40	20 56	16.68	24	35.99	23 50
15.40	52	67.89	22 23	16.68	50 8	87.08	28 55	12.47	15	3.85	27 07	10.60	16	18.92	22 33	16.34	48 10	57.58	14 54
16.34	55	68.81	24 06	14.71	11	87.79	23 45	16.68	16	4.02	21 31	12.66	23	20.72	22 19	16.14	16	59.03	11 04
14.71	55	68.87	28 24	13.27	13	88.20	23 04	15.69	17	4.20	22 25	16.49	26	21.58	25 50	16.68	24	61.08	10 15
16.68	56	68.91	26 53	11.00	17	89.20	23 24	15.12	28	6.92	27 02	15.12	27	21.82	28 10	14.13	28	61.98	13 12
14.61	58	69.43	27 41	15.12	19	89.86	27 21	16.68	31	7.72	28 31	15.02	28	21.95	24 02	16.49	32	62.91	18 28

25 prec. + 77 sec. + 6′ 9″.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ − ″		m s	′	′ − ″		m s	′	′ − ″		m s	′	′ ″		m s	′	′ + ″
14.37	48 37	64.33	15 25	15.12	52 32	23.05	19 51	14.23	49 41	80.16	1 16	11.97	52 39	24.84	−8 04	15.52	50 31	92.74	2 37
15.52	38	64.51	14 58	15.35	46	26.55	10 09	16.01?	41	80.26	1 11	15.69	46	26.38	1 26	15.40	41	95.31	4 39
12.66	39	64.77	14 56	15.02	51	27.85	10 30	15.29	42	80.55	5 16	15.52	50	27.61	6 37	13.65	42	95.44	9 48
15.52	42	65.62	18 14	16.01	55	28.71	11 01	15.52	43	80.70	7 02	16.68	57	29.13	6 36	16.40	48	97.03	0 24
15.82	43	65.73	15 27	11.72	57	29.26	13 25	13.06	46	81.62	1 13	16.68	57	29.24	4 21	9.89	48	97.09	6 39
14.76	45	66.17	14 46	15.69	58	29.38	10 26	16.49	49	82.31	6 28	12.47	53 7	31.64	1 39	15.52	51 0	99.99	2 02
15.69	50	67.40	12 11	16.68	59	29.67	11 04	14.76	52	83.00	6 18	15.88	19	34.83	2 01	15.82	3	0.83	6 50
15.35	54	68.45	10 21	13.48	53 4	30.88	17 17	16.68	53	83.14	9 29	13.27	24	35.97	3 25	8.64*	6	1.44	7 01
15.69	55	68.87	17 33	15.29	5	31.24	10 15	16.68	50 4	85.97	1 50	15.88	26	36.44	1 14	16.49	8	1.93	8 28
16.01	57	69.28	16 51	15.88	6	31.38	10 46	16.49	5	86.32	7 15	12.47	27	36.76	−4 30	12.51	13	3.15	3 56
15.75	49 4	71.02	19 32	16.01	6	31.47	12 30	15.69	15	88.83	8 48	13.78	48 9	57.34	+1 08	16.49	15	3.66	1 23
16.68	10	72.39	14 51	14.28	14	33.56	12 20	15.02	16	88.90	1 28	14.71	11	57.68	8 19	15.57	21	5.25	6 55
15.12	20	75.11	14 37	12.47	16	33.89	15 29	14.37	16	89.11	2 32	13.27	11	57.85	1 09	14.76	22	5.57	3 42
16.68	34	78.51	10 27	16.14	19	34.77	17 56	14.46	21	90.30	6 55	15.82	12	57.92	8 28	14.37	28	6.91	5 33
15.52	39	79.66	19 48	15.88	21	35.19	10 34	16.68	22	90.62	5 58	12.94	13	58.34	9 35	14.97	28	7.06	7 53
16.68	45	81.29	18 05	15.52	23	35.87	19 49	15.29	29	92.33	3 43	14.51	16	59.01	3 18	13.69	33	8.25	8 18
11.82	51	82.80	14 19	15.23	48 20	60.09	3 50	13.48	30	92.53	0 22	16.68	18	59.62	9 07	16.68	48	11.88	1 39
15.69	55	83.71	15 52	12.47	22	60.52	2 48	15.69	31	92.72	1 19	14.13	19	59.76	8 25	12.86	53	13.28	2 33
16.68	50 1	85.27	16 10	16.68	23	60.65	3 59	15.29	31	92.83	3 40	15.69	33	63.20	4 23	6.9 1)	52 3	15.63	2 43
15.29	3	85.63	15 15	16.14	23	60.81	0 05	16.34	35	93.65	5 31	14.13	42	65.60	8 13	14.86	6	16.42	2 31
15.23	3	85.77	10 39	12.29	31	62.77	7 13	16.68	41	95.19	9 27	15.29	43	65.71	4 40	14.04	10	17.37	7 48
16.68	6	86.41	11 45	14.97	31	62.78	8 36	14.28	43	95.64	7 08	11.72	43	65.71	9 07	15.88	10	17.56	5 38
16.68	26	91.56	18 28	14.23	32	63.08	0 41	13.27	47	96.76	8 43	14.28	45	66.13	8 55	13.27	12	17.95	6 15
16.68	28	91.97	10 44	13.48	42	65.40	6 49	16.68	52	97.92	3 36	16.34	51	67.72	1 40	15.88	15	18.76	3 09
15.40	29	92.31	18 45	15.88	43	65.70	6 19	15.69	51 0	99.93	3 03	15.40	49 11	72.78	0 02	15.12	22	20.49	0 47
13.27	31	92.76	17 07	16.01	44	66.12	5 58	15.57	2	0.56	9 48	13.27	22	75.53	5 13	15.82	24	21.07	6 32
16.01	32	93.00	17 25	16.68	45	66.28	6 36	13.27	8	1.94	3 55	15.69	27	76.86	8 22	14.76	28	21.96	7 39
15.02	35	93.77	15 38	14.71	49	67.13	2 24	10.83	17	4.28	4 12	16.34	28	76.90	1 13	10.51	31	22.70	9 48
13.78	47	96.87	13 44	15.88	50	67.53	0 14	12.47	17	4.34	7 34	15.57	29	77.13	7 54	15.88	41	25.19	7 40
14.46	49	97.36	18 25	16.68	50	67.56	1 11	15.46	20	5.08	0 09	12.86	33	78.13	9 47	15.29	42	25.54	6 33
14.71	52	98.07	15 44	13.27	52	68.00	1 27	13.48:	23	5.84	7 59	14.71	33	78.28	9 12	15.82	43	25.63	4 51
13.06	52	98.11	12 26	15.52	55	68.64	1 42	15.75	33	8.13	0 11	14.61	35	78.80	8 22	9.23 2)	44	25.93	0 37
15.23	59	99.85	16 04	15.88	57	69.32	9 59	15.29	36	9.01	5 49	16.68	35	78.84	5 47	9.39 2)	44	26.10	0 46
15.02	51 1	0.33	18 06	12.66	49 0	69.98	4 40	12.86	40	10.00	8 54	15.88	37	79.36	7 11	16.68	47	26.71	6 49
13.61	3	0.74	11 41	16.40	2	70.54	0 26	16.68	45	11.16	7 57	13.06	39	79.84	4 46	15.82	53 2	30.37	8 13
14.76	7	1.83	11 06	15.82	4	70.93	5 28	11.28	45	11.28	4 20	12.24	42	80.39	4 56	16.68	3	30.64	7 32
10.63	9	2.33	17 20	15.88	7	71.74	4 24	14.13	47	11.72	3 04	16.49	42	80.62	1 48	16.49	3	30.70	3 19
15.02	24	5.99	11 00	12.28	9	72.25	5 02	13.91	51	12.78	7 58	13.27	44	80.99	3 04	15.69	9	32.14	8 44
15.69	29	7.27	11 22	15.29	12	73.12	1 24	15.23	54	13.58	0 43	14.97	51	82.73	2 39	15.82	14	33.61	3 10
16.68	38	9.47	17 17	15.88	15	73.81	7 46	14.51	57	14.35	3 16	15.02	58	84.45	1 28	14.46	19	34.64	2 38
14.97	40	10.12	12 17	15.52	17	74.29	9 24	16.68	52 12	17.91	9 55	15.69	50 2	85.41	9 30	16.21	20	35.04	8 08
12.47	48	11.96	19 40	15.29	22	75.53	2 29	11.62	14	18.41	5 31	15.23	4	85.95	7 33	9.43	21	35.24	2 11
16.34	54	13.52	16 12	14.86	24	76.02	7 10	16.68	15	18.69	2 33	7.58*	6	86.58	1 55	13.06	24	36.10	5 57
16.49	59	14.65	17 54	16.01	25	76.20	6 41	16.49	22	20.40	6 12	15.69	7	86.74	7 42	14.04	26	36.58	8 30
16.68	59	14.79	11 06	16.01	26	76.62	8 32	14.23	27	21.64	5 09	16.21	7	86.78	4 59	13.31	48 11	57.74	19 51
16.68	52 0	15.08	14 12	14.97	28	77.00	2 42	14.61	28	22.00	9 45	12.47	12	88.00	3 52	15.12	12	57.88	19 50
15.23	1	15.18	11 04	16.68	28	77.09	9 17	15.88	28	22.04	4 52	12.47	14	88.39	3 44	16.68	16	58.92	15 04
14.97	7	16.77	16 58	15.23	34	78.44	1 57	13.27	28	22.12	1 48	16.34	20	90.02	4 01	16.21	29	62.32	14 35
14.76	19	19.74	11 40	15.88	36	78.99	9 50	10.71	29	22.31	2 12	16.49	22	90.50	3 20	16.68	30	62.46	10 05
14.37	28	22.01	15 10	15.40	40	80.02	7 22	15.69	37	24.16	7 28	12.16	27	91.77	+5 27	16.21	30	62.56	13 18

25 prec. + 77 sec. + 6′ 8″.

1) Magnitude uncertain, extrapolated.

2) Magnitude derived from secondary-exposure images only, as the main images of the two stars partly overlap.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.29	48 32	62.88	10 22	14.71	51 23	5.68	15 51	14.37	48 44	65.87	26 08	13.27	51 33	8.28	27 21	15.02	49 36	78.95	34 25
15.29	36	63.88	14 35	12.86	23	5.85	18 25	16.68	47	66.86	22 25	12.66	36	8.89	27 34	16.68	36	79.01	38 24
16.68	36	63.95	16 23	16.49	25	6.35	18 21	16.49	47	66.87	25 48	15.29	37	9.28	25 07	16.34	38	79.46	32 46
16.68	37	64.24	11 19	16.21	27	6.83	16 31	16.68	48	66.92	27 13	16.01	52	12.99	22 59	14.61	48	81.90	33 57
16.68	37	64.27	19 50	15.69	28	7.02	12 50	15.69	52	68.12	24 19	14.51	53	13.19	22 58	15.88	50	82.45	34 07
14.51	37	64.35	19 20	12.29	33	8.27	17 13	16.01	55	68.86	28 42	16.68	52 0	14.91	24 38	16.68	53	83.30	34 01
15.29	42	65.38	15 53	16.14	35	8.63	15 49	15.52	56	69.04	23 49	15.63	9	17.37	29 54	16.68	54	83.59	39 21
16.68	51	67.70	14 01	15.57	37	9.17	11 00	16.14	59	69.69	29 16	16.68	14	18.62	20 58	13.44	50 7	86.76	39 51
15.82	52	67.90	11 29	15.88	37	9.24	14 19	15.02	49 3	70.64	24 51	14.28	16	19.07	25 27	15.29	9	87.16	32 51
15.88	56	69.03	16 27	16.68	39	9.75	14 47	14.61	8	72.03	28 01	15.69	27	21.82	26 48	14.00	12	87.99	36 43
16.01	59	69.84	14 24	15.29	42	10.37	18 46	14.37	18	74.61	20 40	12.47	30	22.47	28 04	16.49	13	88.31	32 18
15.40	49 2	70.38	12 23	11.65	42	10.39	15 55	15.02	21	75.30	28 16	16.68	36	24.01	24 34	13.27	15	88.65	35 58
16.01	28	76.97	18 03	15.12	44	10.95	18 19	13.06	24	76.08	22 28	15.82	38	24.58	27 02	15.88	16	89.10	33 07
14.76	28	77.00	12 59	15.52	44	11.08	11 28	15.52	27	76.74	29 18	16.68	41	25.28	21 18	16.21	22	90.52	39 24
16.34	29	77.14	19 49	15.69	51	12.64	16 13	15.40	31	77.81	24 36	15.82	45	26.18	26 21	15.88	32	92.98	30 37
16.49	29	77.24	11 51	16.14	53	13.20	11 40	11.24	34	78.55	29 45	15.82	47	26.64	25 23	15.02	35	93.86	31 16
16.49	31	77.77	15 29	12.58	57	14.32	19 54	15.02	40	79.92	23 28	14.00	58	29.62	23 39	15.82	43	95.84	38 17
15.88	32	78.04	10 11	15.69	52 1	15.21	13 40	12.86	42	80.56	28 45	15.57	53 11	32.80	20 25	16.49	56	98.93	33 28
15.69	38	79.51	14 53	13.69	5	16.20	19 11	14.51	44	81.11	28 26	15.02	14	33.57	27 10	16.49	59	99.78	38 35
13.48	38	79.62	17 36	16.68	8	17.11	12 54	15.52	48	82.08	26 26	16.21	20	34.92	26 41	15.69	59	99.78	33 12
15.57	46	81.43	15 42	15.88	14	18.62	14 42	14.71	51	82.81	24 24	15.12	20	35.03	26 45	16.68	59	99.81	30 43
16.68	46	81.58	11 35	15.82	15	18.87	11 47	16.68	50 6	86.46	21 33	14.76	27	36.70	20 45	14.51	51 4	1.10	32 59
15.88	47	81.67	18 04	12.86	16	18.89	15 43	16.34	7	86.74	28 54	16.68	48 9	57.19	31 23	12.86	5	1.27	34 00
12.58	50	82.57	14 08	13.69	16	19.04	18 20	14.23	7	86.86	23 10	16.68	12	57.97	32 59	12.47	10	2.51	32 20
14.71	52	82.88	10 09	16.68	18	19.60	12 16	11.24	12	87.91	23 47	13.91	21	60.28	35 10	15.57	11	2.86	32 29
15.29	57	84.15	16 51	15.29	19	19.67	11 50	16.68	18	89.52	23 43	16.49	26	61.54	30 58	15.18	13	3.10	39 49
14.00	50 7	86.77	14 28	13.06	20	20.09	13 05	13.48 :	24	91.01	20 50	16.49	30	62.52	30 40	15.29	14	3.61	31 58
16.01	16	89.11	12 40	16.68	22	20.53	16 56	16.68	25	91.15	23 15	15.69	31	62.79	30 46	15.69	15	3.73	37 07
14.86	21	90.24	17 08	14.81	29	22.16	19 39	15.69	34	93.43	20 16	15.23	36	64.04	31 02	15.12	18	4.42	34 49
16.68	22	90.54	17 07	13.27	30	22.56	18 13	15.12	35	93.87	24 09	12.47	40	65.00	33 01	12.66	19	4.81	31 07
15.88	23	90.67	11 37	15.69	35	23.71	16 41	16.68	36	94.08	29 03	13.69	42	65.43	32 51	15.29	20	4.91	31 06
15.52	33	93.29	13 30	14.76	44	25.88	10 45	16.68	38	94.39	22 58	15.57	45	66.34	33 08	15.52	31	7.79	35 32
12.86	34	93.49	11 55	16.68	47	26.63	11 47	15.57	38	94.47	22 27	14.04	47	66.75	38 12	15.52	36	8.90	38 45
16.68	38	94.55	11 16	13.48	58	29.42	11 32	16.68	39	94.68	26 51	16.40	56	68.96	30 08	15.02	42	10.45	32 10
16.34	39	94.80	17 41	16.68	53 3	30.81	18 09	13.27	39	94.85	20 34	16.34	49 1	70.37	39 13	15.88	42	10.58	38 16
16.68	41	95.13	12 27	15.57	6	31.44	14 34	16.68	45	96.26	27 18	15.12	5	71.37	34 09	16.68	45	11.17	38 52
16.68	44	95.94	17 27	15.02	9	32.13	17 19	16.49	50	97.52	21 27	15.12	6	71.49	36 58	16.34	50	12.56	33 20
15.82	50	97.51	15 09	14.51	14	33.48	11 48	13.48	51	97.79	21 40	16.01	6	71.59	30 18	16.68	50	12.59	30 18
14.37	52	97.88	13 27	16.68	16	34.11	14 11	14.76	52	97.92	20 42	16.68	10	72.50	34 28	14.86	55	13.75	30 53
16.68	55	98.78	11 17	16.68	18	34.45	15 19	15.82	53	98.28	25 58	16.68	11	72.65	36 28	13.27	56	14.02	34 50
15.12	56	99.07	11 41	16.68	21	35.36	18 33	12.86	55	98.63	26 31	15.57	12	72.98	32 24	14.23	52 2	15.43	34 18
11.09	58	99.52	10 30	15.02	48 8	57.03	28 53	16.68	56	98.92	24 27	13.48	16	73.88	33 28	14.76	5	16.35	35 49
16.21	51 1	0.35	12 02	16.49	10	57.52	28 48	13.61	51 3	0.72	21 56	13.06	19	74.81	38 20	14.97	7	16.80	32 00
12.29	6	1.60	10 54	14.97	14	58.53	22 01	15.69	7	1.83	22 27	16.68	21	75.15	34 25	14.97	12	17.94	32 25
16.68	8	2.02	18 52	16.68	16	58.88	27 18	15.12	9	2.17	22 55	15.23	24	76.12	34 03	12.66	14	18.46	39 40
16.14	9	2.17	12 10	13.69	16	58.90	28 19	14.23	11	2.75	23 48	15.69	27	76.81	31 36	11.03	15	18.82	34 13
15.23	19	4.77	14 10	12.66	19	59.70	25 51	15.69	15	3.83	28 09	13.91	28	76.90	33 49	11.32	17	19.27	35 49
15.29	21	5.24	16 20	15.82	41	65.14	26 03	13.78	17	4.21	25 30	16.68	29	77.34	31 56	15.12	22	20.40	38 45
12.66	21	5.28	14 36	15.82	43	65.84	20 07	16.68	20	5.01	21 32	12.86	34	78.45	38 30	16.01	25	21.30	30 02
12.29	21	5.30	14 30	14.76	43	65.86	23 38	14.61	21	5.27	29 33	14.00	35	78.72	34 31	14.86	28	21.94	33 46

25 prec. + 77 sec. + 6′ 8″.

2^h Area 94. +0°

601—630				631—660				661—690				691—710			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.34	52 28	21.99	30 14	14.04	48 50	67.52	40 58	16.14	50 36	93.98	47 05	15.40	52 33	23.21	42 22
16.34	29	22.34	34 57	14.71	53	68.18	40 09	16.49	40	94.99	49 54	16.49	41	25.17	42 36
13.06	31	22.79	35 43	16.68	55	68.78	42 09	13.06	48	97.03	40 54	15.23	45	26.29	43 10
15.29	31	22.82	36 21	16.34	56	69.00	40 25	14.86	55	98.73	44 35	16.68	47	26.66	43 12
16.68	34	23.59	30 12	16.68	49 0	69.93	41 56	16.34	57	99.33	41 24	14.51	47	26.82	46 53
14.71	39	24.77	32 09	15.12	4	71.06	47 26	15.69	58	99.41	49 58	11.93	50	27.45	48 20
16.68	40	24.99	30 47	15.02	5	71.20	43 38	14.86	59	99.83	42 32	14.28	51	27.76	44 03
14.61	40	25.08	35 27	12.23	6	71.50	47 30	14.28	51 0	0.10	46 34	14.61	57	29.26	48 37
13.78	42	25.39	32 04	15.23	8	71.98	47 45	16.68	1	0.28	49 00	11.55	58	29.42	43 13
14.71	46	26.39	34 56	12.66	9	72.23	42 46	14.13	1	0.37	46 01	13.48	53 3	30.85	49 37
15.69	51	27.87	35 46	13.27	10	72.62	49 07	15.88	6	1.39	41 57	15.52	4	31.00	46 34
13.69	54	28.56	36 32	16.68	22	75.39	41 36	16.14	17	4.23	48 19	12.47	4	31.09	46 49
14.76	59	29.79	37 37	16.01	23	75.84	42 23	14.28	22	5.39	48 54	14.37	6	31.59	44 52
15.57	53 0	30.11	33 06	14.86	31	77.74	44 34	13.91	24	6.02	43 32	14.46	11	32.85	41 57
15.29	1	30.27	36 06	16.01	39	79.63	45 46	14.13	30	7.56	43 13	13.27	12	33.07	47 00
16.01	3	30.67	36 46	16.14	45	81.27	44 56	16.68	31	7.72	42 04	15.88	13	33.20	45 00
15.23	5	31.19	33 45	16.34	48	82.06	47 54	15.52	47	11.80	46 31	15.69	14	33.58	40 39
16.68	14	33.59	33 05	15.02	49	82.18	46 07	16.68	48	12.10	44 52	16.14	15	33.67	48 57
14.00	15	33.71	33 09	16.68	52	83.04	48 14	16.34	53	13.13	49 17	16.68	25	36.19	40 40
13.69	48 17	59.24	48 32	14.71	57	84.33	45 25	15.12	54	13.53	45 15	14.71	25	36.37	40 03
16.68	24	60.93	46 55	15.88	50 1	85.23	43 47	15.23	52 1	15.36	49 01				
13.56	28	62.09	41 06	16.49	2	85.53	45 30	15.57	6	16.42	41 24				
16.68	30	62.39	47 37	14.23	6	86.59	44 23	12.47	8	17.04	45 29				
15.12	32	62.96	41 00	12.66	7	86.78	46 16	14.76	10	17.52	42 16				
15.57	32	63.01	42 42	15.23	11	87.65	48 49	15.82	13	18.25	47 48				
12.86	41	65.17	45 37	11.50	24	91.11	42 48	15.69	15	18.69	43 38				
12.29	44	65.95	47 27	12.66	26	91.51	46 27	16.49	15	18.86	47 48				
15.82	46	66.40	42 03	11.62	30	92.50	46 40	15.52	19	19.75	47 35				
14.97	46	66.41	48 13	15.23	32	92.95	48 15	13.06	21	20.18	40 56				
15.52	50	67.44	40 34	12.47	34	93.42	48 59	12.66	29	22.17	41 27				

25 prec. + 77 sec. + 6′ 8″.

3^h Area 95. Centre for 1900: 3^h 50^m 0° 0′. —0°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.67	47 9	57.30	29 15	16.48	47 29	62.27	27 11	15.91	47 42	65.43	26 13	13.49	48 2	70.49	26 21	13.98	48 34	78.51	20 20
15.18	11	57.79	23 57	15.08	30	62.45	21 31	15.56	43	65.86	24 19	14.02	3	70.84	24 40	14.99	37	79.18	22 15
13.49	13	58.29	27 40	14.85	32	63.07	28 02	14.07	46	66.51	21 48	14.76	9	72.36	27 41	10.78	42	80.38	20 49
15.42	13	58.34	25 42	14.02	33	63.22	21 05	14.07	48	66.93	21 11	14.85	9	72.36	24 00	15.71	44	81.06	26 04
13.40	13	58.34	21 39	11.42	33	63.36	23 18	16.67	51	67.65	24 44	16.67	10	72.43	21 34	11.90	45	81.16	28 18
14.39	14	58.55	25 14	14.94	34	63.41	23 02	16.67	52	68.08	23 04	14.62	10	72.45	20 52	16.33	50	82.45	22 39
14.94	14	58.56	27 24	15.66	35	63.85	28 47	15.81 ?	57	69.37	26 21	16.67	18	74.41	27 17	13.93	51	82.85	28 54
14.76	17	59.22	20 49	15.23	36	63.94	29 07	11.00	48 0	70.05	29 29	15.42	20	74.91	20 21	14.99	53	83.14	26 31
16.67	20	59.96	24 45	11.72	38	64.41	24 56	16.48	0	70.10	26 18	16.07	22	75.54	22 14	12.84	57	84.34	22 55
15.37	27	61.73	20 26	15.91	38	64.44	21 31	15.66	2	70.43	20 53	14.30	28	76.98	26 53	14.71	49 0	84.93	28 30

25 prec. + 77 sec. + 4′ 33″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′
	m s	′	′ − ″		m s	′	′ − ″		m s	′	′ − ″		m s	′	′ ″		m s	′	′ + ″
16.48	49 5	86.30	26 02	12.63	47 57	69.28	15 00	15.71	50 39	9.84	18 57	15.97	48 47	81.73	−4 24	16.33	47 59	69.83	3 16
9.21	7	86.71	26 05	15.71	48 0	70.11	16 44	13.62	42	10.41	17 45	15.71?	55	83.66	2 28	15.91	48 3	70.67	9 26
16.67	13	88.34	29 31	15.18	7	71.70	11 41	15.56	42	10.49	11 15	16.23	57	84.29	1 01	16.67	10	72.61	0 18
15.08	14	88.59	28 02	13.58	11	72.63	13 31	13.58	44	10.99	10 15	15.08	49 7	86.75	2 25	14.16	19	74.71	3 06
15.56	19	89.64	22 10	13.93	14	73.56	18 11	14.16	51	12.77	14 25	16.17	7	86.79	6 52	15.66	22	75.47	7 53
15.71	20	90.06	27 51	15.32	18	74.49	16 29	15.71	55	13.76	19 35	8.95*	8	87.00	0 23	14.71	23	75.79	7 06
15.81	21	90.37	25 23	16.67	18	74.61	15 33	15.42	59	14.66	10 24	16.23	9	87.30	4 03	16.23	27	76.63	8 20
16.67	36	93.91	27 01	13.71	21	75.17	11 52	16.67	51 0	14.89	10 58	15.56	11	87.87	1 52	15.97	29	77.28	3 57
14.71	40	95.09	23 01	14.99	26	76.39	13 06	16.33	1	15.18	18 03	14.48	14	88.41	5 12	16.48	31	77.70	3 54
13.49	42	95.60	24 45	16.07	26	76.40	12 13	16.33	4	16.03	16 25	16.67	17	89.33	3 01	12.84	32	77.99	1 21
16.33	51	97.80	28 02	16.67	27	76.79	11 59	15.32	4	16.05	15 05	15.32	23	90.87	3 01	16.67	34	78.53	1 38
14.39	53	98.32	20 34	15.32	33	78.28	19 02	15.32	47 9	57.21	3 55	14.53	31	92.82	7 37	16.07	35	78.75	6 08
16.07	56	98.97	26 06	16.67	36	79.03	13 21	16.67	10	57.38	9 33	15.18	32	92.94	5 32	13.49	39	79.77	8 50
16.48	56	99.07	22 48	15.56	41	80.16	10 34	12.22	12	58.00	7 58	16.67	32	93.01	5 10	14.94	44	80.88	0 17
15.23	50 0	99.88	24 38	15.08	41	80.17	18 36	14.39	14	58.62	7 52	16.07	33	93.18	3 05	16.67	54	83.42	5 33
12.84	0	99.90	27 09	11.83	42	80.49	15 09	15.97	17	59.37	2 02	15.32	36	94.07	8 32	14.39	56	83.95	9 04
16.67	8	2.05	28 11	13.06	45	81.32	11 07	15.56	20	60.09	1 45	15.81	37	94.19	7 43	15.23	56	84.07	4 26
12.42	9	2.25	25 48	13.06	51	82.63	13 50	15.42	22	60.55	1 20	12.20	43	95.64	7 33	14.85	58	84.59	3 24
15.23	10	2.40	28 47	15.08	52	83.05	14 50	13.49	23	60.75	7 49	16.67	44	95.90	6 33	15.71	49 4	85.89	6 57
15.71	15	3.82	20 08	16.48	49 0	85.08	12 39	15.81	23	60.75	9 03	16.48	45	96.13	0 53	14.94	4	85.98	2 43
16.48	17	4.24	20 20	14.99	7	86.64	12 09	15.71	23	60.77	5 36	13.93	52	97.88	8 20	14.53	9	87.24	1 05
15.32	18	4.38	26 41	16.48	7	86.70	11 14	15.32	25	61.12	8 23	16.67	52	97.98	1 03	14.39	17	89.21	4 50
12.42	24	6.01	28 04	15.71	10	87.40	17 26	12.84	25	61.13	9 16	16.67	58	99.45	7 54	16.48	22	90.44	9 37
12.00	24	6.07	26 48	16.17	18	89.55	13 32	12.84	25	61.14	7 21	14.76	59	99.79	9 23	15.23	28	92.03	9 47
14.16	25	6.36	25 01	14.99	20	90.00	10 55	16.67	25	61.23	8 29	15.47	50 0	99.95	9 52	14.94	36	94.08	9 37
15.91	38	9.38	25 37	16.48	23	90.87	10 10	12.18	28	61.92	6 28	14.85	0	99.98	2 12	14.94	38	94.44	8 13
14.39	40	10.06	26 33	15.71	26	91.46	19 02	15.18	28	61.99	2 24	15.71	1	0.21	3 03	16.67	46	96.52	4 42
16.33	46	11.55	24 43	13.58	29	92.23	17 12	15.71	31	62.84	9 23	16.48	11	2.87	4 43	15.66	50 4	1.03	7 02
14.39	51 0	14.89	22 00	15.47	38	94.39	14 58	15.08	32	63.07	2 39	15.97	16	3.97	0 44	15.71	5	1.22	1 56
15.91	2	15.49	22 42	14.94	42	95.44	17 50	16.33	33	63.14	4 43	14.07	28	7.03	8 52	16.67	15	3.67	9 05
13.40	3	15.73	24 25	14 85	43	95.86	13 43	13.62	37	64.18	9 15	14.39	32	7.89	6 51	14.62	17	4.27	6 35
14.57	47 10	57.50	10 06	11.81	44	96.09	12 19	15.91	45	66.23	0 24	15.47	36	9.03	7 55	15.97	19	4.75	1 40
16.67	12	57.98	10 35	16.67	46	96.47	14 43	16.48	45	66.36	3 14	10.98	48	12.01	5 04	16.67	22	5.50	3 44
14.48	14	58.51	15 52	8.71*	46	96.53	17 01	16.67	46	66.47	0 02	16.48	48	12.09	1 37	13.93	34	8.42	9 00
14.16	15	58.76	18 27	14.85	50	97.46	19 00	16.67	47	66.75	5 56	15.37	59	14.74	0 09	15.23	36	9.07	7 34
14.53	16	58.91	13 23	14.99	54	98.47	10 54	15.81	49	67.31	7 24	11.64	51 6	16.51	−8 47	16.67	38	9.59	5 18
15.91	16	58.94	16 44	15.42	57	99.19	14 06	13.06	51	67.74	6 26	16.48	47 13	58.29	+9 32	16.48	44	11.06	7 48
14.16	20	60.05	13 51	16.67	57	99.25	18 44	16.67	52	68.19	0 23	16.67	16	58.92	7 10	15.23	48	12.01	2 24
15.32	22	60.60	15 10	12.63	58	99.41	14 25	16.07	48 4	70.88	7 40	14.71	18	59.54	2 39	14.94	51	12.73	6 01
14.11	25	61.12	19 51	14.25	58	99.41	17 02	12.20	6	71.43	1 32	14.02	20	60.09	2 59	15.32	51	12.73	1 58
10.13	26	61.50	19 53	13.71	50 2	0.46	11 43	16.48	6	71.59	0 30	14.30	23	60.73	9 57	15.32	52	12.95	7 08
15.66	28	62.04	11 13	13.06	2	0.56	16 18	16.67	9	72.37	3 32	14.71	25	61.16	6 38	15.97?	52	13.07	9 18
14.16	35	63.83	13 41	16.67	10	2.54	12 15	14.85	13	73.28	1 20	14.39	34	63.44	9 36	16.67	54	13.45	4 09
15.18	36	64.05	12 09	16.17	12	2.96	14 09	16.48	19	74.76	7 45	14.62	38	64.59	1 08	13.80	55	13.78	1 19
15.81	38	64.58	13 01	14.39?	20	4.89	11 58	14.62	27	76.74	6 59	15.42	45	66.17	1 21	16.67	51 1	15.26	7 52
9.57*	47	66.76	17 36	12.07	31	7.67	17 33	14.94	27	76.86	5 17	14.11	45	66.30	9 37	12.63	1	15.29	9 30
14.99	50	67.61	18 14	16.67	36	9.04	10 49	14.53	33	78.16	8 22	14.99	51	67.66	8 50	15.66	4	16.09	1 36
14.94	53	68.31	15 02	15.47	37	9.13	15 29	15.23	34	78.41	6 21	15.56	55	68.66	1 21	13.80	47 17	59.33	12 43
14.85	53	68.33	11 52	11.85	37	9.27	10 29	15.32	42	80.40	7 24	11.33	57	69.22	9 08	15.66	18	59.62	11 59
15.71	54	68.42	17 41	14.76	39	9.67	17 12	15.18	42	80.51	8 32	15.71	59	69.67	+2 49	16.07	26	61.52	18 28

25 prec. + 77 sec. + 4′ 31″.

3^h Area 95. $+0^\circ$

301—330				331—360				361—390				391—404			
Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.89	47 33	63.29	13 22	16.67	49 32	93.05	15 57	14.39	47 20	60.03	24 36	15.81	50 5	1.14	27 42
11.69	34	63.47	13 22	15.23	37	94.15	13 57	14.76	21	60.34	25 26	14.39	8	2.11	21 27
12.63	35	63.67	19 03	16.33	48	96.95	14 46	13.84	22	60.49	23 00	15.47	11	2.72	27 48
15.81	37	64.19	16 35	12.55	52	98.01	10 09	14.94	25	61.19	23 34	14.39	14	3.45	29 58
16.07	37	64.29	14 35	15.81	50 0	0.07	14 57	16.67	39	64.84	26 29	15.47	20	4.93	21 49
16.23	40	65.02	10 09	14.94	1	0.30	14 17	14.99	43	65.67	24 03	16.07	30	7.42	21 23
15.66?	42	65.43	15 12	15.91	17	4.37	12 59	15.18	45	66.19	23 48	14.48	37	9.31	25 00
16.33	42	65.45	16 46	12.14	23	5.74	16 31	16.67	46	66.44	21 02	16.48	44	11.01	26 07
14.67	43	65.67	19 33	14.62	24	5.90	15 53	13.06	47	66.64	25 54	13.84	54	13.50	25 14
15.18	43	65.72	17 17	14.48	29	7.24	16 36	16.67	59	69.86	26 48	15.47	58	14.56	29 53
15.32	48 11	72.67	11 50	16.67	29	7.31	11 33	15.42	48 0	69.97	27 40	15.32	59	14.72	27 29
13.80	15	73.71	13 04	14.62	39	9.70	10 33	15.71	3	70.80	25 18	9.39	51 0	15.03	25 11
12.07	19	74.68	18 42	15.23	42	10.55	13 49	15.32	12	73.06	20 46	15.97	0	15.06	24 02
13.93	20	75.09	12 38	15.47	45	11.29	15 35	12.42	18	74.50	25 56	14.99	6	16.56	25 22
16.39	21	75.23	10 14	15.97	47	11.70	13 59	16.67	21	75.20	24 05				
16.67	29	77.25	17 28	16.17	47	11.76	10 33	16.67	25	76.24	29 25				
13.93	36	79.04	11 59	16.33	48	11.92	18 05	15.91	28	77.07	28 58				
15.32	37	79.25	11 36	16.23	48	11.98	10 48	16.67	49	82.18	27 37				
15.42	45	81.16	18 33	15.91	49	12.17	11 25	10.60	49 0	84.95	20 51				
13.80	48	81.95	11 48	13.40	52	12.96	16 12	16.67	5	86.27	25 06				
14.07	50	82.47	13 04	15.71	54	13.39	18 57	16.33	5	86.28	22 18				
13.80	54	83.55	14 44	15.71	56	14.03	17 27	16.17	18	89.40	23 34				
15.97	56	83.88	10 53	16.33	57	14.28	12 29	15.81	21	90.22	23 28				
15.91	56	84.02	19 28	14.76	51 2	15.45	19 41	14.76	25	91.30	20 29				
14.48	49 1	85.34	15 41	15.97	4	16.01	13 06	14.71	29	92.28	28 56				
15.18	4	85.97	10 35	15.47	47 10	57.61	27 27	14.85	38	94.46	22 30				
12.12	10	87.51	13 30	16.67	11	57.79	22 26	15.42	40	95.04	28 28				
14.39	11	87.78	18 44	13.06	15	58.66	29 18	15.56	42	95.39	22 09				
14.99	16	88.95	19 23	16.07	18	59.39	28 43	15.32	43	95.75	29 40				
13.06	23	90.68	11 21	14.30	19	59.68	26 27	14.85	44	96.08	22 10				

25 prec. + 77 sec. + 4′ 31″.

4^h Area 96. Centre for 1900: $4^h\ 48^m\ 0^\circ\ 0'$. -0°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$	Int. magn.	α	x	$y-0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.52	45 44	66.10	23 31	15.61	45 56	68.89	22 59	12.47	46 9	72.27	25 05	16.49	46 25	76.25	26 07	16.30	46 45	81.17	29 24
12.38	44	66.11	29 28	15.81	57	69.34	23 27	15.81	11	72.83	24 00	14.40	25	76.27	29 25	16.01	45	81.36	28 24
13.41	46	66.43	29 19	15.68	57	69.36	28 50	15.07	12	72.94	26 30	14.65	27	76.65	23 45	15.07	46	81.51	27 33
15.01	47	66.64	21 22	16.49	59	69.79	28 54	14.55	13	73.23	24 32	15.61	33	78.32	20 34	14.31	46	81.51	27 09
14.26	48	67.00	21 01	16.49	46 3	70.74	26 23	12.43	14	73.41	23 15	14.65	33	78.37	24 48	14.90	48	82.05	26 30
15.48	49	67.16	20 59	16.01	5	71.23	26 35	14.40	14	73.52	24 03	10.30	36	78.94	20 22	16.49	49	82.22	23 31
14.80	50	67.39	23 38	14.40	6	71.42	24 09	15.36	20	74.93	24 53	15.68	36	78.99	26 59	14.50	49	82.31	22 21
14.90	52	67.99	23 40	16 49	6	71.57	26 20	15.18	22	75.54	23 50	14.03	38	79.40	24 11	16.49	50	82.55	22 19
15.07	54	68.59	22 38	14.26	8	72.02	29 26	16.15	23	75.78	23 51	13.33	38	79.48	21 44	16.30	50	82.56	20 35
16.49	55	68.82	20 45	13.94	9	72.21	26 17	16.49	24	76.01	21 54	15.88	42	80.49	20 23	14.31	51	82.81	28 28

25 prec. + 77 sec. + 2′ 39″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	a	x	$y-0'$	Int. magn.	a	x	$y-0'$	Int. magn.	a	x	$y-0'$	Int. magn.	a	x	$y-0'$	Int. magn.	a	x	$y-0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
10.84	46 53	83.29	20 35	13.94	48 33	8.16	22 38	16.49	45 50	67.40	17 05	14.03	47 18	89.60	17 42	12.77	48 33	8.14	14 53
16.30	53	83.35	21 00	13.60	33	8.21	29 58	15.12	51	67.82	19 56	16.49	19	89.66	19 38	15.36	33	8.32	16 08
16.49	58	84.53	21 24	16.49	34	8.46	23 42	13.94	53	68.15	13 23	16.30	19	89.77	10 59	14.55	35	8.76	11 18
14.75	47 1	85.12	29 06	16.30	34	8.56	29 08	11.32	53	68.22	13 17	14.80	20	89.95	19 47	16.49	36	8.95	13 35
15.74	1	85.26	20 23	16.49	37	9.15	21 30	16.49	53	68.30	13 55	15.61	22	90.40	19 13	16.49	38	9.39	17 35
11.16	4	86.10	21 35	15.68	38	9.49	27 51	15.18	54	68.43	12 36	15.01	22	90.53	12 19	16.49	39	9.67	15 40
14.80	5	86.19	24 19	15.61	40	9.95	29 48	15.18	54	68.46	16 02	13.14	25	91.27	13 50	16.08	41	10.34	19 44
16.15	8	86.90	20 10	13.73	47	11.87	25 53	16.49	54	68.53	13 50	13.14	28	92.09	12 16	16.30	41	10.35	10 18
14.90	14	88.45	25 51	13.44	48	12.00	24 07	15.01	55	68.74	16 29	15.81	30	92.58	13 15	15.68	42	10.38	15 50
14.65	15	88.77	22 59	15.36	52	13.06	22 58	13.81	57	69.23	18 29	14.08	32	93.05	18 19	15.68	43	10.71	14 30
13.29	16	88.96	20 27	16.01	53	13.27	22 30	15.68	57	69.37	11 31	15.01	33	93.35	10 34	15.95	43	10.85	15 32
15.18	16	88.96	29 02	15.95	55	13.72	22 07	13.14	58	69.48	10 31	14.40?	35	93.65	15 03	15.01	44	10.97	14 04
15.68	18	89.46	26 09	15.42	55	13.78	20 02	15.30	46 2	70.58	15 34	15.24	35	93.84	10 31	14.75	45	11.20	11 19
15.48	19	89.75	24 02	15.36	55	13.82	25 56	13.52	3	70.77	11 55	15.36	40	94.92	14 07	16.49	45	11.30	17 26
15.36	20	90.00	26 10	15.42	56	14.00	20 10	15.81	4	71.08	16 08	14.40	40	95.05	11 57	16.01	46	11.53	13 09
15.48	21	90.28	24 52	14.08	57	14.19	29 48	15.95	6	71.40	16 18	15.18	42	95.61	12 05	13.77	48	12.03	19 58
16.30	22	90.39	25 37	15.95	58	14.45	24 39	11.20	6	71.43	18 04	16.49	43	95.76	18 00	16.49	48	12.07	17 22
15.01	23	90.69	26 06	15.95	58	14.54	24 32	16.49	12	73.01	11 59	15.01	44	95.98	10 30	15.12	53	13.34	19 59
16.49	26	91.38	21 15	15.95	59	14.79	26 49	15.74	13	73.14	10 12	11.57	44	96.10	11 55	14.90	54	13.61	12 34
14.75	27	91.64	27 54	13.94	49 1	15.14	22 06	15.48	13	73.23	17 52	15.07	50	97.47	19 50	13.86	55	13.66	10 22
16.49	28	92.03	22 52	14.80	1	15.20	28 45	11.25	16	73.88	19 15	15.07	50	97.63	12 39	14.65	57	14.31	17 52
16.49	28	92.07	21 27	16.49	1	15.36	27 46	16.15	16	73.98	17 13	16.49	53	98.37	15 30	13.94	58	14.49	15 03
14.55	32	92.88	28 24	16.01	2	15.50	25 45	12.95	18	74.61	16 37	15.48	55	98.74	12 18	15.61	59	14.77	15 11
12.59	35	93.85	22 03	15.61	3	15.71	29 53	16.30	19	74.82	15 43	16.15	55	98.79	14 38	15.55	59	14.82	19 47
14.55	37	94.13	20 38	16.49	8	17.02	26 40	16.49	23	75.77	14 00	16.49	56	98.99	19 00	15.61	49 1	15.20	13 30
16.30	39	94.73	26 39	15.81	9	17.15	28 19	15.68	26	76.58	16 19	14.31	58	99.43	13 33	16.49	1	15.27	11 58
15.18	43	95.63	24 44	14.55	10	17.48	27 56	14.17	27	76.67	16 53	16.01	58	99.48	16 00	15.48	3	15.71	17 22
16.49	46	96.59	24 28	14.80	10	17.49	28 41	15.61	27	76.73	11 33	16.49	59	99.63	15 51	15.68	3	15.78	17 27
16.49	49	97.33	23 56	11.88	10	17.62	20 24	12.41	27	76.81	13 45	16.30	59	99.83	12 42	16.49	3	15.83	18 23
13.73	51	97.75	27 55	15.48	12	17.97	24 09	9.92	34	78.45	15 25	14.90	48 0	99.92	14 19	14.50	4	15.89	19 49
14.90	51	97.85	26 56	15.01	13	18.30	27 43	16.01	35	78.62	17 54	16.49	2	0.43	15 37	12.77	6	16.58	13 03
16.49	52	97.95	26 48	16.30	15	18.73	27 00	15.48	38	79.48	11 42	12.77	7	1.79	15 57	13.33	7	16.78	13 46
11.53	52	98.05	24 43	15.68	15	18.75	20 51	15.36	40	79.89	13 23	16.49	11	2.62	19 17	15.61	8	17.03	14 41
16.15	55	98.82	20 55	10.09	20	19.92	21 34	16.15	43	80.73	12 58	14.55	11	2.63	13 21	11.63	9	17.24	16 13
16.49	56	98.87	28 21	13.86	20	20.02	28 58	14.80	46	81.38	10 05	11.79	12	2.99	15 00	14.55	11	17.69	18 28
16.01	58	99.38	23 20	15.36	21	20.26	26 02	14.50	46	81.48	11 10	16.49	12	3.09	12 49	15.74	14	18.54	19 40
14.90	59	99.80	27 02	15.18	28	22.01	27 07	15.48	48	81.89	14 56	14.75	17	4.24	14 01	15.68	16	19.01	16 00
15.30	48 3	0.63	25 26	13.33	31	22.63	23 22	13.60	50	82.52	11 02	12.95	20	4.97	18 05	16.49	17	19.15	10 39
15.18	3	0.69	28 11	16.30	31	22.83	29 42	14.80	51	82.83	10 57	16.49	20	5.06	12 23	16.49	17	19.20	17 31
11.74	3	0.77	27 45	16.30	33	23.36	20 01	15.61	53	83.33	11 38	15.81	21	5.13	12 59	14.31	18	19.42	16 10
16.15	5	1.24	26 54	15.95	34	23.51	29 31	15.95	47 2	85.39	15 10	16.15	22	5.48	17 11	16.49	18	19.56	15 53
14.75	5	1.30	25 34	16.30	34	23.53	20 28	10.75	4	85.92	15 40	14.90	22	5.60	15 06	11.32	20	20.08	14 44
16.49	6	1.48	24 43	16.01	40	25.03	28 14	16.49	4	85.94	10 50	16.49	24	5.96	19 01	15.36	21	20.22	14 49
13.52	8	2.09	29 33	15.36	41	25.20	24 52	12.59	7	86.83	15 20	12.59	26	6.59	18 28	16.01	22	20.39	17 46
14.50	10	2.56	28 29	15.61	41	25.23	22 32	15.61	7	86.86	18 32	10.75	27	6.72	10 03	16.49	23	20.68	16 11
15.30	10	2.61	22 19	15.30	42	25.60	25 20	16.49	8	87.02	18 03	15.48	28	6.97	12 52	14.31	23	20.74	16 04
13.81	19	4.82	27 18	12.95	44	25.89	25 22	16.30	15	88.82	12 34	15.18	28	6.98	12 07	15.81	25	21.17	14 56
16.49	22	5.40	22 01	16.49	44	25.96	20 06	16.49	16	88.88	13 53	11.71	29	7.22	10 18	15.48	25	21.21	17 26
16.49	24	6.03	24 09	15.30	45 45	66.31	18 07	16.49	16	88.95	16 29	13.14	29	7.33	17 04	15.48	25	21.28	17 06
15.48	28	7.00	24 30	12.77	48	67.09	14 43	15.01	16	89.07	15 11	14.31	33	8.13	15 31	14.26	26	21.57	15 00

25 prec. + 77 sec. + 2′ 35″.

Area 96.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′
	m s	′	′ − ″		m s	′	′ − ″		m s	′	′ − ″		m s	′	′ ″		m s	′	′ + ″
16.49	49 27	21.65	17 10	15.61	46 17	74.18	9 32	15.24	47 32	92.94	9 38	14.08	48 43	10.81	−0 49	15.74	45 49	67.19	9 48
15.18	27	21.69	16 56	15.95	17	74.35	9 09	16.49	34	93.41	5 38	11.80	46	11.44	6 06	16.49	50	67.59	8 52
13.33	27	21.84	19 44	15.95	18	74.42	3 13	16.49	37	94.22	7 35	14.80	48	11.93	5 46	15.18	52	68.04	9 37
13.52	29	22.23	10 35	13.33	19	74.69	7 48	13.33	40	94.93	7 59	16.49	50	12.47	7 30	15.01	53	68.19	3 21
15.12	32	22.92	10 04	15.30	21	75.32	7 05	11.73	41	95.35	2 30	15.81	51	12.72	2 17	14.90	53	68.35	6 50
13.14	32	23.03	16 47	14.65	22	75.45	5 16	9.26*	43	95.78	2 57	15.18	51	12.76	8 24	15.36	55	68.63	3 39
16.49	32	23.08	10 26	15.01	24	75.89	4 00	16.49	45	96.13	6 54	16.49	52	12.94	1 58	16.49	55	68.86	9 10
16.49	33	23.15	10 54	13.52	24	75.91	5 49	16.49	48	97.10	0 10	16.15	52	13.11	1 49	14.31	56	69.08	4 50
16.49	33	23.35	12 19	13.25	25	76.31	4 37	13.94	51	97.75	0 55	15.48	54	13.61	7 42	16.49	57	69.20	1 34
10.77	36	23.95	10 52	14.55	26	76.43	6 11	14.80	54	98.49	7 36	16.15	56	13.90	6 12	16.49	46 7	71.79	0 58
16.49	36	24.00	18 28	16.49	26	76.45	9 20	15.18	55	98.66	6 47	15.68	57	14.19	7 27	15.48	8	72.02	6 02
13.65	37	24.14	17 17	15.61	26	76.56	3 01	15.18	56	98.88	9 05	15.95	57	14.30	8 21	12.95	8	72.07	5 13
15.68	37	24.23	10 47	14.65	27	76.66	4 19	13.73	57	99.35	0 55	14.17	57	14.30	4 06	16.49	11	72.68	5 01
15.68	38	24.42	14 11	15.68	29	77.34	9 54	15.36	58	99.57	8 59	16.49	58	14.43	8 27	16.15	12	72.91	1 08
13.44	38	24.43	17 39	12.95	33	78.34	5 44	16.49	48 0	0.03	8 14	16.30	59	14.83	6 49	15.81	12	72.98	1 55
15.95	39	24.85	13 56	16.01	36	78.97	1 45	16.49	4	1.04	7 07	15.61	49 4	15.89	1 11	15.95	12	73.04	6 21
14.03	40	24.93	10 52	16.30	36	79.11	0 20	16.49	5	1.12	8 50	15.30	9	17.26	6 04	11.94	12	73.09	5 36
16.49	41	25.32	12 37	13.52	37	79.23	0 45	16.49	5	1.20	8 13	15.36	14	18.46	0 27	16.49	12	73.09	6 18
14.55	42	25.48	11 54	16.49	39	79.63	4 50	15.68	7	1.67	7 39	15.68	14	18.50	2 21	14.55	13	73.13	3 18
13.14	43	25.78	18 18	13.14	42	80.57	8 09	15.07	7	1.79	9 15	16.49	14	18.54	1 21	16.49	14	73.45	6 43
10.80	45 44	66.01	4 33	16.49	43	80.69	8 33	15.61	8	2.04	4 05	16.01	14	18.60	7 45	14.03	14	73.50	3 07
15.30	49	67.21	8 03	12.95	43	80.76	7 58	15.48	8	2.05	3 40	15.81	17	19.16	4 49	14.55	14	73.56	1 54
14.75	50	67.56	4 10	16.49	46	81.41	8 22	14.80	9	2.19	9 27	15.48	17	19.28	0 09	16.49	17	74.26	7 11
15.30	51	67.63	6 48	14.90	46	81.45	2 58	14.65	10	2.53	6 31	12.95	19	19.82	9 34	13.73	18	74.46	9 26
14.75	51	67.73	6 53	16.49	46	81.52	5 25	16.49	12	3.11	1 33	15.30	21	20.27	3 28	16.49	22	75.46	8 41
15.61	51	67.74	8 11	12.00	51	82.85	8 47	16.49	13	3.33	1 15	15.18	22	20.44	1 19	16.01	23	75.74	9 48
15.68	51	67.82	5 53	14.55	52	83.10	7 54	16.49	13	3.34	3 45	13.65	22	20.62	3 17	16.30	25	76.14	4 37
16.01	52	67.94	8 19	14.90	55	83.64	4 19	15.68	16	4.03	8 00	16.15	23	20.78	2 09	15.01	25	76.23	0 23
9.37	53	68.13	3 59	14.22	56	83.94	0 09	15.95	17	4.28	5 35	16.15	24	21.06	7 11	13.44	25	76.35	7 41
15.01	53	68.17	5 10	15.81	47 0	85.10	3 44	13.33	19	4.68	1 05	16.30	27	21.68	9 03	16.30	28	76.92	5 45
16.30	56	68.89	5 31	14.90	1	85.30	1 44	15.55	19	4.73	9 55	11.69	28	21.96	5 56	16.49	28	77.10	5 41
11.35	56	69.01	8 44	9.33*	2	85.44	7 18	13.25	21	5.19	8 52	15.81	30	22.50	3 07	16.30	29	77.15	3 41
16.49	58	69.51	8 47	16.49	2	85.47	2 48	16.01	22	5.46	6 38	16.15	30	22.59	0 22	15.81	29	77.32	2 42
11.65	59	69.68	1 01	14.03	2	85.47	8 37	14.45	22	5.52	9 47	14.90	31	22.79	7 45	15.61	31	77.85	2 56
15.61	59	69.86	3 02	16.30	5	86.14	2 29	16.49	23	5.77	6 36	15.61	32	23.01	5 19	16.49	32	78.08	9 47
14.90	46 0	69.92	1 33	16.49	5	86.24	7 31	12.77	25	6.14	8 03	14.50	32	23.09	9 06	15.48	36	78.92	6 31
16.49	0	69.99	5 40	15.18	6	86.53	3 56	16.01	25	6.35	1 49	12.77	34	23.40	3 42	13.14	37	79.19	1 32
15.12	1	70.28	0 26	15.48	12	88.09	3 19	13.52	25	6.36	0 54	15.18	34	23.62	4 22	14.08	38	79.52	3 00
15.48	2	70.50	7 11	16.30	16	88.93	4 25	16.49	28	7.03	3 37	16.49	35	23.81	7 10	16.49	42	80.54	8 53
16.15	2	70.51	4 20	14.40	19	89.79	6 19	14.90	31	7.74	5 59	11.75	36	23.93	4 06	15.36	44	80.94	0 06
15.18	3	70.65	8 47	13.73	19	89.80	8 36	13.33	31	7.85	3 37	13.25	36	24.04	0 45	11.42	44	81.03	4 06
15.81	5	71.15	2 28	16.30	22	90.47	0 59	14.90	34	8.54	9 50	15.07	37	24.32	4 02	14.55	45	81.16	0 20
16.49	6	71.43	5 26	10.09	23	90.64	7 57	13.52	36	8.95	8 04	14.80	38	24.62	6 07	16.49	46	81.42	2 39
15.61	8	71.90	6 20	15.36	23	90.74	6 00	12.95	36	9.04	3 45	16.49	39	24.76	2 45	13.14	51	82.72	0 51
14.40	8	72.10	0 29	16.49	26	91.48	6 57	14.17	37	9.23	3 03	14.80	40	24.95	3 15	12.70	51	82.74	0 20
16.49	10	72.50	5 29	14.96	28	91.92	0 09	14.55	38	9.39	7 15	13.94	41	25.15	1 38	15.36	54	83.53	0 49
14.17	12	72.99	7 04	14.55	28	92.12	2 57	15.61	39	9.65	4 09	14.40	41	25.36	2 30	16.49	57	84.20	6 36
16.15	13	73.15	8 20	15.36	29	92.20	9 34	14.90	40	10.09	5 39	15.01	42	25.43	−4 47	14.80	59	84.80	2 22
15.07	15	73.66	1 33	16.49	29	92.28	6 46	12.36	40	10.09	9 14	15.68	45 47	66.85	+0 58	11.85	59	84.84	4 14
13.52	16	74.01	6 28	14.80	31	92.80	5 52	13.25	41	10.29	6 22	14.50	48	67.09	+1 40	15.61	59	84.87	5 23

25 prec. + 77 sec. + 2′ 35″.

551—600				601—650				651—700				701—750				751—800			
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.50	47 0	84.93	0 01	16.49	48 8	1.92	2 27	15.07	49 20	20.00	4 39	15.68	46 25	76.12	10 22	13.73	47 51	97.64	14 25
16.49	0	84.96	7 07	15.68	9	2.20	8 01	11.01	20	20.03	5 33	15.07	25	76.16	13 11	16.49	51	97.81	12 23
15.68	0	85.12	6 59	15.81	9	2.34	0 04	15.30	23	20.66	9 14	14.90	25	76.16	19 36	12.15	51	97.83	14 28
15.61	3	85.72	8 41	12.13	10	2.48	6 47	14.50	23	20.67	1 33	15.95	25	76.30	11 30	16.49	53	98.33	17 43
13.44	4	85.99	2 42	14.90	11	2.75	0 45	14.12	23	20.70	0 18	15.36	26	76.43	13 51	16.30	55	98.78	13 15
15.07	4	86.11	4 03	13.52	12	2.98	7 44	16.49	27	21.82	9 40	14.40	26	76.45	11 52	16.30	55	98.82	16 42
15.61	5	86.22	5 01	14.50	16	4.03	1 31	16.01	33	23.35	3 58	16.01	27	76.73	14 06	16.49	57	99.33	11 01
15.68	7	86.86	1 04	14.50	16	4.10	5 33	14.55	34	23.51	5 33	13.37	30	77.49	19 41	16.49	58	99.40	10 19
13.14	8	87.10	7 18	16.49	18	4.46	6 07	16.30	34	23.54	5 29	15.61	33	78.26	15 48	13.33	59	99.75	19 29
13.14	11	87.79	3 12	15.48	18	4.54	3 20	14.90	35	23.71	2 29	14.80	34	78.57	12 31	16.30	48 0	99.90	15 11
14.80	11	87.81	1 47	15.48	19	4.70	1 50	14.26	36	23.99	8 38	15.61	37	79.22	13 17	12.59	3	0.87	19 58
16.49	14	88.60	1 40	14.17	21	5.14	6 43	12.12	37	24.20	7 02	14.65	37	79.27	15 31	15.81	4	0.90	13 33
13.44	14	88.62	6 12	16.49	21	5.14	5 40	16.30	38	24.56	4 13	15.61	41	80.20	12 37	15.61	4	1.05	10 52
15.81	15	88.79	1 33	15.30	23	5.87	7 13	15.81	39	24.70	0 05	16.49	43	80.75	12 02	9.62	5	1.32	14 56
16.15	19	89.69	5 09	10.31	28	6.90	5 18	15.68	41	25.36	5 34	15.30	48	82.07	13 58	15.48	7	1.67	18 22
14.31	26	91.45	6 38	15.95	28	7.12	4 39	15.36	43	25.66	3 49	15.18	49	82.13	15 48	16.49	8	2.12	18 33
13.52	29	92.26	8 43	15.81	29	7.22	3 18	14.03	45 45	66.26	12 49	16.49	49	82.27	13 37	12.43	11	2.65	13 43
15.30	30	92.43	4 11	16.49	30	7.40	5 20	14.90	46	66.57	19 03	12.77	55	83.65	13 08	15.36	14	3.45	12 27
16.49	30	92.56	4 40	16.30	30	7.42	2 11	16.49	47	66.80	11 21	16.15	58	84.53	15 21	16.15	14	3.47	10 10
15.81	30	92.63	8 11	14.65	30	7.51	8 05	16.49	48	66.90	17 58	16.49	47 1	85.29	14 42	16.49	14	3.59	14 43
16.49	31	92.74	3 18	16.49	32	7.98	3 22	15.81	49	67.36	19 23	13.14	1	85.31	11 26	16.49	17	4.16	14 45
15.48	32	92.89	1 37	15.42	35	8.71	9 38	14.80	50	67.50	13 10	16.49	2	85.39	16 47	16.49	19	4.73	11 22
16.15	32	93.01	3 08	13.14	36	9.02	5 13	13.86	51	67.75	15 53	14.03	7	86.74	15 43	14.08	20	4.97	19 04
16.49	33	93.21	0 27	13.94	38	9.39	7 29	15.30	52	67.94	13 27	15.81	8	87.06	15 14	15.61	21	5.22	19 16
15.24	35	93.86	9 35	15.61	38	9.57	8 59	16.30	53	68.19	11 31	15.81	9	87.20	17 43	12.77	24	6.00	14 18
15.68	36	93.95	8 08	14.60	39	9.68	0 30	14.55	53	68.37	18 01	15.68	9	87.33	11 55	16.49	26	6.42	18 32
16.49	37	94.13	8 56	16.49	39	9.70	2 49	16.49	54	68.59	18 27	11.57	13	88.32	10 26	14.90	26	6.45	10 00
16.30	38	94.43	8 13	15.61	44	11.09	2 04	15.81	57	69.20	18 10	12.59	13	88.35	12 28	16.49	26	6.59	19 08
16.49	39	94.80	5 11	15.18	49	12.31	5 45	16.49	58	69.42	14 33	14.08	17	89.25	18 10	15.07	27	6.75	13 44
16.49	42	95.42	4 47	14.65	55	13.73	9 58	14.12	59	69.66	10 32	16.49	17	89.33	19 49	16.49	27	6.81	10 34
15.61	43	95.83	6 30	16.30	56	14.08	0 21	15.18	46 0	69.95	10 20	15.07	23	90.70	19 18	15.81	28	7.07	11 50
16.49	47	96.71	3 50	15.68	57	14.36	5 43	12.95	0	70.06	13 49	13.25	24	90.95	14 29	14.65	29	7.29	16 11
14.80	47	96.75	2 28	14.03	59	14.66	1 11	15.01	1	70.37	15 28	13.73	24	91.05	14 10	15.18	30	7.39	11 47
15.48	50	97.56	5 50	12.47	49 0	15.08	6 26	15.48	2	70.47	17 19	15.48	24	91.09	18 45	15.18	31	7.74	10 20
14.75	51	97.72	9 22	16.49	2	15.43	7 19	16.15	2	70.62	17 33	15.61	25	91.36	18 52	16.49	33	8.28	12 10
15.36	52	97.99	1 49	14.75	2	15.55	6 38	15.07	3	70.64	14 16	12.11	27	91.73	12 04	15.36	34	8.51	13 33
14.50	52	98.11	3 59	14.40	5	16.14	4 44	15.48	7	71.76	14 38	12.95	27	91.85	12 26	14.90	34	8.53	12 01
15.81	54	98.53	4 41	13.52	6	16.60	8 18	14.90	11	72.65	16 56	15.48	29	92.36	12 01	15.61	36	8.96	12 02
16.15	54	98.57	8 41	13.60	7	16.75	6 56	16.49	11	72.68	16 43	14.90	31	92.80	18 04	16.30	38	9.59	12 42
14.90	55	98.81	3 49	14.45	7	16.82	0 22	16.49	11	72.73	14 43	16.30	32	92.87	12 51	15.30	40	9.98	18 11
15.42	48 1	0.14	9 54	14.40	8	16.96	4 26	15.01	11	72.87	18 22	13.60	34	93.47	17 06	15.18	41	10.33	17 35
12.29	1	0.16	5 46	13.65	9	17.32	8 05	15.81	12	72.97	18 10	15.48	34	93.55	19 23	15.01	42	10.47	14 10
14.50	1	0.25	0 26	14.40	11	17.70	0 16	16.49	12	73.08	11 33	15.18	36	94.04	15 49	12.30	42	10.58	10 03
14.90	3	0.65	6 11	15.07	11	17.83	3 43	16.49	14	73.40	12 15	15.61	36	94.08	18 55	16.49	44	10.98	17 33
15.48	3	0.85	2 47	16.30	12	17.92	5 33	15.81	14	73.41	17 54	15.36	38	94.50	14 51	14.65	45	11.14	13 39
13.48	3	0.86	0 21	13.94	13	18.36	6 18	16.49	20	74.97	11 22	16.49	42	95.41	11 42	15.61	45	11.37	18 22
14.40	6	1.54	7 07	15.81	15	18.67	5 33	16.49	20	75.08	19 28	15.81	42	95.58	18 38	16.49	48	11.90	15 03
15.36	7	1.70	1 51	16.49	15	18.70	1 06	15.81	20	75.12	14 33	12.19	44	95.89	15 38	14.90	53	13.37	15 02
16.49	7	1.72	5 40	16.49	19	19.75	3 51	15.48	22	75.52	18 21	15.48	48	96.95	12 05	14.80	54	13.61	14 54
16.15	7	1.83	4 29	16.49	20	19.94	9 12	16.49	24	75.95	13 56	14.50	48	97.09	18 30	16.01	54	13.62	15 37

25 prec. + 77 sec. + 2′ 35″.

Area 96.

801—840				841—880				881—920				921—960				961—991			
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.50	48 56	14.11	12 34	16.01	45 52	67.92	28 23	15.95	47 13	88.33	22 42	12.95	48 15	3.83	28 57	16.49	49 6	16.59	24 13
14.55	57	14.21	18 34	15.81	52	67.94	22 24	16.49	13	88.37	29 27	14.40	17	4.12	21 59	14.90	8	16.93	23 03
14.80	57	14.28	12 01	15.48	52	67.97	23 23	14.17	14	88.48	25 20	15.30	17	4.28	23 19	15.81	9	17.17	20 39
13.33	59	14.75	11 20	12.20	53	68.27	21 49	15.01	14	88.48	25 16	15.81	18	4.45	25 46	15.68	9	17.23	20 45
13.86	49 2	15.43	15 27	15.07	53	68.29	27 41	16.01	16	89.02	26 30	15.95	19	4.73	22 00	16.01	10	17.42	24 55
15.68	2	15.56	16 19	15.01	54	68.42	29 36	15.01	17	89.17	29 44	16.49	21	5.16	28 57	15.48	11	17.65	27 38
16.15	6	16.41	10 59	15.36	57	69.17	22 26	14.90	17	89.24	20 02	16.01	21	5.36	20 22	15.48	12	18.03	26 23
14.26	6	16.55	18 22	14.90	58	69.61	22 09	13.25	18	89.50	21 12	15.68	22	5.44	21 21	16.49	13	18.34	20 22
15.68	6	16.61	11 33	15.68	46 1	70.22	29 10	14.40	23	90.72	21 43	13.94	23	5.73	27 24	15.01	15	18.68	25 13
14.12	11	17.73	19 46	16.15	2	70.51	22 42	15.55	23	90.77	20 21	15.74	24	6.02	20 18	15.61	16	18.89	25 47
14.50	12	18.09	17 43	13.33	4	70.99	27 21	14.55	25	91.15	21 27	15.68	26	6.51	22 32	16.49	21	20.31	29 22
14.26	14	18.50	17 59	15.18	5	71.28	29 20	15.68	26	91.39	24 41	16.30	28	6.98	20 28	14.80	23	20.74	21 13
14.65	16	18.95	18 15	15.48	5	71.35	20 43	12.95	28	91.92	29 43	16.30	30	7.40	27 25	16.49	23	20.77	27 26
14.40	16	19.12	19 11	14.17	8	71.98	20 22	15.30	28	92.01	26 31	16.49	31	7.65	25 42	15.18	24	20.87	22 24
16.49	20	19.96	14 38	13.94	8	72.05	26 38	15.01	29	92.23	22 58	16.49	32	8.07	23 51	15.07	26	21.51	24 19
11.22	20	20.12	19 39	13.14	8	72.06	20 54	16.49	29	92.29	24 51	15.68	34	8.43	23 29	15.07	27	21.76	20 58
16.49	21	20.36	14 46	14.50	11	72.76	26 05	15.48	30	92.39	29 58	15.68	34	8.51	21 43	15.24	28	21.92	20 01
16.49	26	21.53	15 38	14.50	13	73.29	25 48	14.75	33	93.34	24 50	16.30	36	9.07	29 19	16.30	29	22.24	26 02
16.30?	28	21.94	16 39	13.44	22	75.38	24 45	16.49	35	93.81	29 44	13.65	37	9.12	21 48	14.90	31	22.74	24 39
15.07	28	21.96	14 42	15.01	26	76.54	29 55	15.01	37	94.31	29 13	13.44	38	9.52	23 45	16.30	32	23.06	23 03
16.30	29	22.15	13 14	15.30	27	76.69	20 34	16.49	42	95.40	28 15	16.49	42	10.61	27 14	15.18	34	23.43	25 45
16.49	31	22.80	19 18	16.15	28	77.00	28 54	16.49	43	95.84	28 49	16.01	49	12.33	29 34	14.90	34	23.50	20 02
15.61	31	22.85	17 25	14.65	28	77.04	23 11	15.68	46	96.45	26 31	16.30	50	12.56	29 55	16.49	35	23.64	24 32
14.50	32	22.92	14 40	15.18	31	77.63	28 53	16.15	50	97.44	24 46	16.30	51	12.68	25 32	14.90	35	23.85	21 24
16.49	33	23.25	10 09	13.52	33	78.36	23 29	16.49	52	97.95	21 36	15.18	51	12.79	24 06	15.95	35	23.86	21 18
16.15	33	23.34	19 35	16.15	37	79.19	24 25	14.90	53	98.34	29 32	14.65	52	12.97	24 57	13.52	36	24.07	20 14
16.49	34	23.50	10 00	16.49	39	79.75	21 05	16.49	53	98.36	23 46	16.49	52	13.11	26 41	15.30	38	24.60	27 34
14.70	34	23.52	19 52	13.86	46	81.46	28 55	16.49	55	98.66	21 14	15.07	54	13.40	23 23	16.49	39	24.63	25 41
15.30	34	23.55	11 57	12.27	47	81.78	23 08	15.81	57	99.32	24 35	13.14	54	13.57	29 59	14.50	40	25.00	24 14
15.61	37	24.20	15 26	15.48	49	82.33	25 37	14.40	58	99.37	22 53	15.18	54	13.61	29 02	16.49	42	25.47	23 53
14.65	39	24.84	14 29	13.52	51	82.82	21 25	12.47	59	99.70	23 08	14.40	56	14.12	23 04	14.40	43	25.80	23 23
16.49	39	24.85	13 35	16.30	52	83.06	25 55	15.68	59	99.83	20 47	14.90	57	14.34	21 02				
15.61	41	25.20	19 12	15.68	57	84.15	23 25	16.15	48 0	0.06	24 45	14.65	58	14.39	25 34				
14.55	42	25.48	17 32	16.49	47 1	85.16	28 51	16.30	0	0.10	25 48	16.15	58	14.53	22 43				
13.86	42	25.61	13 55	14.90	5	86.19	22 52	14.50	5	1.13	21 40	15.61	58	14.58	27 11				
15.68	43	25.62	11 36	12.59	5	86.20	20 11	16.30	7	1.69	21 57	16.49	49 1	15.26	28 44				
5.86[1]	43	25.73	18 22	12.11	10	87.48	25 40	15.61	7	1.78	24 24	11.79	2	15.49	27 04				
15.30	45 44	66.12	27 54	15.55	12	88.05	20 22	15.61	8	1.95	27 46	15.01	2	15.51	22 14				
10.80	47	66.78	24 18	15.68	13	88.27	29 39	16.08	9	2.34	20 20	15.48	4	16.05	20 52				
16.49	48	67.04	22 08	16.49	13	88.29	23 23	15.68	11	2.63	25 15	14.90	6	16.53	26 24				

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[1] Vis. magn. from Harv. Ann. 50, reduced to photogr. magn. by Harv. Ann. 71, I p. 7.

25 prec. + 77 sec. + 2′ 34″.

Area 97. Centre for 1900: $5^h\ 52^m\ 0^\circ\ 0'$.

$-0^\circ, +0^\circ$

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ‾ ″		m s	′	′ ‾ ″		m s	′	′ ‾ ″		m s	′	′ ‾ ″		m s	′	′ ″
16.26	51 0	85.00	12 11	14.97	52 12	2.93	14 43	14.88	53 23	20.72	16 08	15.40	51 48	96.88	3 34	15.84	53 3	15.81	−8 37
15.63	1	85.34	15 37	16.07	13	3.16	19 18	14.63	24	20.90	11 43	13.82	51	97.64	9 50	15.58	4	15.89	5 08
14.88	5	86.30	16 22	15.18	14	3.51	19 51	14.05	27	21.78	15 48	14.54	55	98.86	3 30	14.88	4	16.00	0 03
16.26	6	86.60	16 09	14.42	15	3.83	16 48	16.26	29	22.21	10 39	15.18	59	99.79	3 35	16.26	5	16.34	4 12
12.34	8	87.10	17 30	15.06	18	4.38	11 21	14.25	30	22.50	16 59	14.54	52 0	0.01	3 26	15.06	7	16.67	2 06
14.75	10	87.38	12 32	13.47	19	4.83	11 39	14.21	30	22.60	13 07	15.58	1	0.16	0 42	15.71	7	16.68	6 20
15.06	11	87.78	15 35	13.54	20	4.90	16 17	14.97	31	22.63	13 40	14.97	1	0.17	5 20	16.26	7	16.86	6 48
14.63	12	88.05	18 11	13.35	20	4.91	15 01	15.10	31	22.73	12 00	16.26	4	0.98	7 14	16.26	10	17.54	5 36
14.46	17	89.32	11 31	14.13	21	5.13	13 51	15.40	31	22.82	14 49	16.26	6	1.50	0 31	15.58	10	17.62	3 32
15.63	20	89.92	12 40	13.74	21	5.26	14 02	16.26	32	22.91	11 00	13.74	8	1.91	8 56	12.15	11	17.80	5 21
15.31	21	90.23	18 40	14.38	23	5.64	10 09	12.15	33	23.16	11 04	15.79	8	2.05	7 16	16.07	14	18.50	5 25
14.13	25	91.32	18 53	16.26	24	6.07	17 17	14.84	33	23.34	15 49	16.26	9	2.16	6 11	13.03	16	19.06	0 14
16.26	26	91.37	19 22	15.58	25	6.33	15 11	15.92	35	23.67	11 43	14.88	12	2.91	8 48	14.54	18	19.44	9 10
16.07	26	91.43	15 02	15.71	28	7.00	17 27	16.07	35	23.74	10 01	14.33	18	4.50	4 00	14.42	19	19.72	8 03
16.07	26	91.54	14 49	14.63	30	7.37	19 51	14.88	35	23.76	18 19	11.18	18	4.60	3 52	15.31	20	20.01	3 53
14.21	27	91.73	12 30	16.26	35	8.84	17 39	14.84	36	24.02	17 06	16.26	18	4.61	8 12	16.26	21	20.27	5 41
14.01	28	91.87	16 05	16.26	38	9.62	10 47	16.07	37	24.23	19 41	16.26	19	4.73	5 35	16.07	25	21.24	8 42
12.15	28	92.01	13 46	16.07	40	9.87	12 43	15.27	38	24.44	13 19	14.25	19	4.83	0 44	16.26	26	21.47	2 06
11.96	30	92.46	11 09	15.06	40	10.04	19 18	16.26	38	24.61	16 03	14.84	21	5.14	5 41	13.35	29	22.27	7 31
16.07	30	92.58	17 38	15.40	45	11.14	18 01	14.42	38	24.61	15 22	16.26	21	5.26	6 44	14.67	30	22.41	9 43
15.63	30	92.60	11 22	15.10	45	11.28	15 12	13.15	39	24.82	11 23	14.97	22	5.40	1 12	16.26	30	22.61	4 51
14.88	33	93.20	16 13	15.63	46	11.44	14 46	11.96	51 4	85.94	1 19	14.71	22	5.44	9 51	12.34	31	22.68	5 27
16.26	34	93.40	16 13	14.67	46	11.52	15 06	14.71	4	85.97	9 48	14.46	26	6.59	2 57	16.26	31	22.75	1 45
15.79	34	93.45	10 35	14.01	46	11.62	16 22	15.31	5	86.18	4 58	16.26	29	7.18	5 47	14.05	37	24.21	5 46
15.31	37	94.14	13 11	12.46	48	12.03	10 10	16.26	12	88.04	3 41	15.71	31	7.70	1 32	10.29	38	24.58	−5 19
15.63	38	94.43	11 16	14.33	49	12.29	13 00	14.63	12	88.09	3 31	12.54	32	8.06	9 44	15.71	51 0	85.11	+6 41
16.07	40	95.08	16 35	15.31	50	12.49	10 50	15.92	13	88.29	0 16	16.07	34	8.39	4 01	16.26	4	85.87	0 19
15.18	40	95.08	15 08	14.33	58	14.61	12 59	15.92	17	89.13	7 01	15.40	34	8.60	1 40	16.07	5	86.21	8 59
15.71	40	95.10	18 26	14.97	59	14.77	17 42	14.88	17	89.24	1 18	15.06	35	8.65	6 59	15.31	8	86.94	8 16
15.06	42	95.42	12 50	15.58	59	14.86	12 13	14.84	17	89.28	0 52	16.26	36	9.10	2 42	9.55*	9	87.23	8 41
16.26	46	96.44	16 28	14.97	53 1	15.20	14 30	14.75	19	89.73	8 12	14.67	39	9.63	8 51	16.26	18	89.43	8 02
14.54	47	96.65	11 08	15.67	1	15.22	10 24	14.75	21	90.23	3 48	15.40	40	10.08	5 51	14.63	18	89.58	7 43
16.26	48	97.07	14 45	14.13	1	15.30	15 02	16.26	23	90.75	1 15	16.26	40	10.08	6 16	16.26	22	90.58	7 23
11.10	54	98.38	19 38	14.46	2	15.41	19 24	16.07	25	91.13	6 36	16.26	42	10.46	6 13	15.10	23	90.71	1 52
14.97	54	98.56	14 07	15.40	3	15.72	17 39	16.26	25	91.17	2 38	15.92	42	10.47	1 40	14.97	23	90.85	9 25
14.88	56	98.96	11 37	15.31	3	15.80	17 09	15.58	27	91.64	0 51	13.35	43	10.81	4 22	15.10	27	91.64	5 47
16.26	58	99.46	12 15	16.26	6	16.43	12 58	14.75	30	92.61	3 33	15.40	44	11.00	2 04	16.26	29	92.27	0 27
16.26	58	99.58	15 09	14.97	8	17.10	11 46	15.63	32	92.93	8 31	15.23	46	11.54	9 54	14.84	36	94.00	3 37
15.92	59	99.81	16 38	15.27	9	17.14	17 38	15.18	35	93.73	6 10	10.81	46	11.56	4 55	16.26	37	94.14	0 03
14.75	52 0	99.95	13 17	16.26	10	17.47	14 12	15.92	37	94.24	0 26	14.42	49	12.18	3 09	15.18	42	95.40	9 32
16.26	1	0.21	12 16	15.79	11	17.85	15 31	15.06	37	94.26	5 32	14.21	50	12.49	8 32	13.35	42	95.44	1 18
15.92	2	0.55	12 00	15.84	15	18.84	14 19	11.47	38	94.45	7 36	11.12	51	12.76	7 53	15.27	43	95.65	2 41
14.67	3	0.63	17 45	15.71	16	18.94	18 57	16.26	39	94.72	5 23	16.26	53	13.19	5 12	16.26	44	96.07	8 01
15.79	3	0.80	16 44	14.01	16	18.95	11 58	14.63	40	94.99	5 02	15.58	53	13.34	9 31	15.31	52	98.04	4 22
15.40	4	1.04	10 53	15.06	17	19.26	14 15	15.10	40	95.04	2 43	14.67	57	14.35	5 44	14.97	53	98.15	4 09
13.47	6	1.47	17 11	15.71	18	19.44	16 08	16.26	43	95.77	5 52	12.54	57	14.35	8 27	16.26	54	98.44	9 40
14.88	6	1.58	17 25	16.26	20	20.01	12 10	14.33	44	96.05	1 24	15.18	58	14.58	2 33	15.71	55	98.68	7 57
15.06	6	1.59	19 49	15.71	21	20.20	11 31	15.63	44	96.10	6 34	14.88	53 2	15.39	8 08	14.75	56	98.89	7 09
14.21	7	1.79	16 59	14.25	21	20.20	14 16	14.67	45	96.15	7 55	15.54	2	15.45	9 51	11.85	52 0	0.01	0 24
15.71	9	2.32	15 46	16.26	22	20.37	18 59	13.82	45	96.36	4 56	10.44	3	15.73	4 12	16.26	1	0.21	+4 13

25 prec. + 77 sec. + 0′ 17″.

5^{h} Area 97. + 0°

251—280				281—310				311—340				341—370				371—381			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.31	52 2	0.50	1 02	16.07	53 15	18.64	1 41	10.68	51 16	88.94	12 06	13.36	52 8	1.95	15 49	15.71	53 15	18.84	16 34
11.66	2	0.62	1 53	16.26	15	18.73	9 37	15.92	18	89.43	19 21	14.21	8	1.99	19 29	14.01	17	19.19	17 37
15.18	3	0.73	0 51	13.93	17	19.26	7 29	16.26	18	89.45	10 03	15.06	11	2.86	13 25	15.18	19	19.65	14 58
15.79	8	2.07	1 43	11.46	17	19.36	4 36	15.31	19	89.70	17 44	15.40	17	4.14	19 00	15.10	26	21.49	16 41
15.71	13	3.15	7 50	15.06	18	19.52	6 40	14.01	23	90.79	13 32	11.78	18	4.60	19 41	16.26	30	22.45	11 35
15.84	15	3.67	5 16	14.54	18	19.57	2 52	16.26	24	91.06	10 02	9.94	19	4.81	12 36	15.84	31	22.83	12 19
6.64*	18	4.50	0 56	16.26	19	19.72	0 21	16.26	27	91.84	12 30	16.26	20	5.02	15 03	16.26	34	23.44	13 57
14.54	19	4.70	3 52	11.22	22	20.62	6 06	13.54	28	92.01	19 04	15.63	23	5.73	17 42	15.58	34	23.52	15 12
13.82	24	6.06	8 08	16.07	24	20.96	2 56	11.96	28	92.04	14 36	16.07	27	6.85	17 49	15.27	34	23.54	14 25
14.63	25	6.27	6 47	13.15	25	21.24	4 47	16.26	32	92.99	12 48	16.26	29	7.21	16 05	14.01	38	24.45	15 40
13.35	25	6.31	2 14	15.10	26	21.41	6 34	15.79	38	94.55	13 49	9.66*	29	7.33	12 59	14.46	38	24.52	13 20
15.58	28	6.92	8 19	15.84	26	21.57	0 17	16.26	39	94.64	19 35	14.88	29	7.36	10 30				
15.18	30	7.62	8 51	15.27	27	21.70	1 32	15.58	40	95.01	17 16	15.58	31	7.74	11 01				
14.46	32	7.91	5 39	12.74	30	22.41	3 44	16.07	41	95.16	14 57	14.75	33	8.16	10 45				
16.26	33	8.27	2 22	16.07	30	22.61	9 41	12.95	44	96.02	18 05	15.10	38	9.40	16 35				
16.26	37	9.16	1 22	14.93	31	22.83	9 39	14.84	46	96.44	19 00	15.06	39	9.73	11 59				
15.40	44	11.04	1 43	15.79	35	23.77	3 20	12.15	47	96.86	12 25	15.71	41	10.23	12 20				
16.26	45	11.16	9 51	16.26	37	24.28	7 01	14.97	50	97.59	11 40	15.79	45	11.13	16 16				
15.84	46	11.51	8 31	14.13	39	24.63	8 22	14.84	51	97.69	16 50	15.92	47	11.65	11 51				
13.07	46	11.62	4 20	15.79?	51 2	85.39	11 24	15.92	51	97.83	12 57	16.26	49	12.15	16 52				
13.74	52	12.98	2 49	15.40	2	85.53	17 14	16.26	52	98.00	14 33	15.71	53	13.19	15 16				
13.47	55	13.71	5 13	14.33	4	86.00	14 50	16.26	53	98.22	18 45	14.67	53	13.20	12 47				
14.33	58	14.50	4 22	14.84	8	86.93	11 21	16.26	53	98.35	15 19	16.26	57	14.22	12 43				
16.26	58	14.53	1 21	16.26	8	86.94	12 45	12.95	56	99.07	15 24	16.26	59	14.85	11 39				
16.07	58	14.59	6 29	16.07	9	87.22	12 20	15.79	57	99.35	14 46	13.07	53 1	15.25	18 19				
15.79	53 1	15.35	2 19	13.86	9	87.28	10 50	14.97	58	99.38	18 27	10.67	1	15.28	17 51				
15.79	2	15.47	0 41	15.40	10	87.41	17 14	12.34	58	99.58	14 43	14.25	7	16.70	19 27				
15.71	7	16.85	5 08	10.54	11	87.73	14 58	13.74	52 2	0.42	16 07	10.98	7	16.81	16 24				
15.40	8	16.96	4 19	14.67	14	88.51	17 36	14.75	4	0.97	14 46	11.24	8	16.95	12 30				
16.07	13	18.21	7 11	13.23	15	88.70	15 03	15.79?	4	1.04	15 19	13.93	14	18.44	14 08				

25 prec. + 77 sec. + 0′ 16″.

6^{h} Area 98. Centre for 1900: 6^{h} 47^{m} — 0° 10′. — 0°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.50	45 44	81.08	20 55	14.94	45 50	82.56	27 58	13.10?	45 54	83.54	21 56	15.30	45 58	84.42	20 22	16.45	46 0	85.06	27 08
16.45	45	81.30	21 23	16.11	51	82.65	20 42	13.60	54	83.54	29 06	13.29	58	84.53	23 46	13.10	0	85.08	20 02
16.45	45	81.31	29 14	14.16	51	82.74	20 51	15.16	54	83.57	24 16	16.26	58	84.54	22 13	12.91	1	85.17	27 52
16.45	45	81.32	21 36	15.48	51	82.79	25 23	14.94	54	83.60	26 57	15.96	58	84.60	21 21	14.58	1	85.25	24 08
16.45	46	81.40	29 37	15.62	51	82.80	21 42	16.45	55	83.82	23 41	12.73	58	84.60	28 14	13.10	2	85.48	23 02
11.48	48	82.04	28 59	15.39	52	82.96	21 20	16.45	56	83.91	29 27	14.94	59	84.74	21 16	16.45	2	85.57	21 10
13.40	48	82.08	23 01	16.45	53	83.23	20 52	12.55	56	83.97	25 31	16.45	59	84.76	20 58	13.67	3	85.79	22 13
14.80	49	82.27	25 27	16.26	54	83.40	26 06	14.07	57	84.23	25 31	15.16	59	84.81	23 00	14.49	4	86.10	21 36
15.77	50	82.43	22 31	16.45	54	83.47	20 28	12.91	57	84.30	21 42	15.16	59	84.82	22 03	15.16	5	86.19	21 49
13.79	50	82.52	20 11	15.16	54	83.49	20 38	15.34	57	84.35	20 13	13.48	46 0	84.99	22 25	16.45	5	86.19	26 09

25 prec. + 77 sec. — 1′ 40″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
10.86	46 5	86.32	29 28	16.11	46 22	90.42	24 49	16.26	46 43	95.64	21 05	15.25	47 0	0.02	22 10	16.26	47 16	4.12	27 18
15.48	5	86.33	23 28	16.45	22	90.53	22 49	16.45	43	95.66	26 58	16.45	0	0.02	28 30	15.48	17	4.14	24 18
12.91	5	86.35	28 05	15.72	22	90.60	29 39	16.26	43	95.67	27 56	16.45	0	0.11	23 01	16.45	17	4.15	21 09
15.96	6	86.42	29 00	14.49	23	90.78	26 27	16.45	43	95.73	27 35	13.29	1	0.22	23 24	12.55	17	4.21	28 24
16.45	6	86.52	27 28	15.03	24	91.08	22 45	12.73	43	95.84	29 04	13.60	1	0.24	22 15	15.86	17	4.24	29 02
13.87	6	86.59	21 57	16.45	25	91.24	29 29	14.94	43	95.84	29 37	15.48	2	0.38	25 39	14.71	17	4.30	29 32
14.94	7	86.63	28 39	12.73	26	91.53	26 58	12.55	44	95.94	27 04	13.99	2	0.49	24 58	16.11	17	4.30	23 10
14.94	7	86.66	24 40	15.96	26	91.57	27 55	15.07	44	95.94	22 30	14.62	2	0.53	28 18	16.01	17	4.31	21 32
13.40	7	86.69	28 21	12.91	27	91.75	21 24	13.10	44	95.98	27 53	16.11	2	0.54	28 38	13.95	18	4.42	27 37
14.94	7	86.73	20 54	14.94	27	91.83	26 28	16.45	44	96.04	20 48	15.72	3	0.73	27 39	16.45	18	4.52	27 40
12.73	7	86.81	28 35	15.86	28	91.96	26 10	12.37	45	96.36	25 27	11.86	3	0.82	22 08	15.16	19	4.81	21 24
15.25	7	86.82	22 06	16.45	29	92.15	29 26	15.39	46	96.47	20 44	16.45	4	0.98	29 09	13.40	20	4.89	21 28
13.75	7	86.85	24 52	16.45	29	92.29	25 39	14.07	46	96.55	27 57	16.45	4	0.98	20 05	16.45	21	5.22	28 13
16.45	8	86.96	20 02	13.60	29	92.32	27 11	15.39	46	96.57	29 17	15.07	4	1.02	23 23	14.80	21	5.36	21 10
16.45	9	87.26	26 21	16.26	30	92.39	25 12	14.71	47	96.68	29 30	15.16	4	1.09	28 57	10.70	22	5.39	25 07
15.30	9	87.30	21 49	15.48	31	92.71	23 55	16.45	47	96.78	23 19	16.26	4	1.10	27 41	14.37	22	5.46	23 32
15.86	9	87.32	25 10	13.79	31	92.71	25 18	16.11	48	96.98	26 48	15.25	4	1.10	27 19	15.48	22	5.53	28 57
16.45	10	87.46	22 08	16.01	31	92.83	20 10	14.85	49	97.15	22 50	12.73	4	1.12	25 07	14.94	22	5.62	21 48
15.16	10	87.47	25 15	15.16	32	92.90	26 17	13.29	49	97.29	26 06	15.07	5	1.18	29 37	16.45	23	5.73	27 01
15.86	10	87.54	20 11	14.28	32	92.90	21 42	16.45	49	97.30	26 25	13.67	5	1.26	24 32	16.26	23	5.78	22 31
15.03	10	87.56	25 40	15.07	32	92.91	26 40	15.16	50	97.59	28 03	16.45	6	1.38	23 22	16.45	24	5.91	27 49
14.41	10	87.62	21 19	15.39	32	93.08	27 15	16.45	52	97.93	27 43	15.16	6	1.48	24 12	15.86	24	5.92	26 57
15.77	11	87.78	28 16	16.45	33	93.29	24 29	16.45	52	98.03	26 57	14.49	6	1.48	25 34	13.67	24	5.97	28 06
15.62	12	87.88	24 47	15.30	33	93.30	20 39	16.45	52	98.04	21 00	16.01	6	1.50	23 21	16.11	24	5.98	20 26
15.16	12	88.12	29 26	16.45	33	93.33	23 41	16.45	53	98.22	29 33	16.45	6	1.60	20 25	15.96	25	6.29	23 59
14.85	13	88.25	21 05	14.07	34	93.44	26 56	13.95	54	98.45	20 05	15.39	6	1.60	21 07	16.45	25	6.31	21 00
15.53	13	88.31	21 30	16.01	34	93.44	23 06	16.45	54	98.46	20 38	14.94	7	1.73	25 49	16.45	26	6.43	27 22
16.45	13	88.37	22 24	15.62	34	93.44	21 02	15.07	54	98.47	22 18	15.16	8	1.94	27 11	15.30	26	6.43	29 31
12.91	14	88.52	23 34	15.96	34	93.61	26 26	16.45	54	98.48	22 39	15.03	8	2.02	24 33	15.62	26	6.52	25 47
14.62	14	88.55	25 10	14.85	35	93.67	29 43	14.94	55	98.63	27 07	16.11	8	2.02	26 34	16.11	26	6.54	22 19
13.29	15	88.64	28 55	15.03	36	93.95	27 46	16.11	55	98.67	22 34	14.62	9	2.14	25 11	15.96	26	6.59	21 37
16.45	15	88.82	24 08	13.75	36	93.97	29 47	12.91	55	98.72	23 54	13.60	9	2.21	23 38	15.62	27	6.63	20 11
12.73	16	88.91	26 29	16.45	36	94.04	23 05	16.45	55	98.76	26 19	13.87	9	2.26	23 31	16.26	27	6.64	25 04
16.45	16	88.92	22 45	16.45	36	94.06	26 38	15.77	55	98.80	27 43	15.07	9	2.35	24 36	16.45	27	6.83	20 38
12.03	16	89.02	26 17	15.07	37	94.29	29 40	10.67	55	98.87	20 12	15.53	10	2.49	22 03	16.45	27	6.84	21 28
13.99	16	89.03	25 18	12.55	38	94.62	27 27	15.03	56	98.88	29 48	16.26	10	2.49	29 10	15.96	28	6.93	25 10
16.45	17	89.34	21 09	15.03	39	94.80	24 26	15.62	56	98.92	28 13	13.10	11	2.73	27 42	16.45	28	7.11	23 40
15.30	18	89.52	23 33	16.26	39	94.80	27 19	16.26	56	98.94	24 06	15.96	12	2.87	23 01	16.45	29	7.24	28 10
16.45	18	89.56	26 28	14.07	40	94.89	21 03	14.71	56	99.01	26 30	16.45	12	2.94	22 37	16.45	29	7.26	23 34
14.49	18	89.57	24 37	14.94	41	95.29	24 28	16.45	56	99.06	28 39	14.94	12	3.00	21 45	16.45	30	7.52	22 02
15.72	18	89.61	23 19	14.80	41	95.30	23 33	13.48	56	99.08	20 44	14.41	12	3.06	24 09	16.01	30	7.59	24 17
16.45	19	89.62	26 17	15.03	41	95.33	23 03	15.53	57	99.18	29 48	13.87	13	3.17	29 19	14.85	31	7.87	21 50
15.07	19	89.66	29 45	12.20	41	95.33	22 08	10.88	57	99.24	20 08	13.48	13	3.36	26 40	16.45	31	7.87	22 51
14.80	19	89.68	21 28	16.26	41	95.33	24 43	13.87	58	99.39	29 24	13.40	14	3.49	27 43	14.85	32	7.99	24 53
15.72	19	89.76	22 58	15.07	42	95.40	21 21	14.49	58	99.43	24 09	15.62	14	3.59	28 52	15.16	32	7.99	27 56
12.20	20	89.99	24 24	13.29	42	95.49	22 41	12.20	58	99.51	29 24	15.53	15	3.76	29 53	12.73	32	8.06	21 05
15.07	20	90.11	23 59	16.45	42	95.55	24 11	15.16	58	99.59	28 33	12.55	15	3.85	21 21	14.37	32	8.09	29 20
15.07	21	90.16	24 35	16.45	42	95.56	21 38	13.60	58	99.60	25 06	14.20	16	3.89	26 00	16.45	33	8.25	28 31
16.11	21	90.32	27 08	16.26	42	95.59	26 43	14.71	59	99.65	26 38	16.45	16	3.97	22 43	16.45	33	8.30	22 48
14.80	21	90.37	24 58	16.45	42	95.60	29 36	14.62	47 0	99.99	26 18	15.62	16	4.08	29 48	14.20	33	8.30	21 20

25 prec. + 77 sec. — 1′ 42″.

Area 98.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.45	47 33	8.30	21 32	16.45	47 49	12.37	28 04	13.99	48 7	16.66	27 29	16.45	48 21	20.33	28 29	13.87	46 0	85.04	17 49
16.45	34	8.48	27 56	14.71	50	12.50	25 30	11.86	7	16.75	26 01	15.96	22	20.42	29 36	13.67	1	85.17	15 58
16.45	34	8.60	28 19	13.87	50	12.59	25 40	16.26	7	16.77	27 39	14.80	22	20.55	22 01	14.94	1	85.20	17 55
16.45	35	8.84	20 34	14.62	51	12.65	28 27	13.48	7	16.83	26 18	15.96	22	20.55	29 29	16.01	1	85.29	19 07
15.86	36	9.00	29 44	14.85	51	12.77	20 38	15.30	8	16.93	29 49	10.90	22	20.58	28 00	15.53	2	85.41	18 39
13.29	36	9.09	25 22	15.07	51	12.87	27 57	15.39	8	16.98	23 09	14.80	23	20.74	28 59	12.91	2	85.42	13 25
16.45	37	9.21	24 38	15.72	52	12.95	29 41	15.72	8	17.04	23 50	15.03	23	20.75	28 21	12.91	2	85.60	14 41
16.01	38	9.38	23 12	15.03	52	12.99	24 44	14.41	8	17.10	24 29	14.80	23	20.84	27 55	13.48	3	85.65	19 18
15.62	38	9.43	26 13	15.77	53	13.12	22 18	16.11	9	17.20	24 43	13.87	23	20.86	26 19	14.49	4	85.88	13 12
15.39	38	9.44	26 59	16.01	53	13.14	23 03	13.10	9	17.23	26 03	14.85	24	20.95	23 31	15.30	4	86.04	11 24
15.72	38	9.48	25 22	16.45	53	13.15	29 28	16.26	9	17.32	24 49	15.25	45 44	81.01	11 18	13.21	4	86.11	17 43
14.62	38	9.53	22 57	15.53	53	13.30	21 52	15.25	9	17.33	23 03	13.48	45	81.26	12 54	16.26	5	86.19	16 52
11.45	39	9.64	28 44	16.45	54	13.43	24 37	16.45	9	17.35	24 49	14.80	46	81.50	10 38	14.41	5	86.21	15 01
14.58	39	9.65	26 45	15.30	54	13.52	21 29	13.40	10	17.39	29 27	12.55	46	81.51	12 53	13.75	5	86.21	11 17
16.45	40	9.92	24 30	11.80	54	13.61	28 09	14.94	10	17.43	26 27	14.62	46	81.54	10 58	12.91	5	86.28	14 08
14.37	40	9.93	25 48	12.55	54	13.62	22 53	14.94	10	17.51	23 48	16.26	46	81.56	10 27	16.45	5	86.32	17 16
12.03	40	9.96	23 13	16.45	54	13.62	23 09	15.16	10	17.51	27 06	13.29	46	81.57	12 29	12.37	5	86.36	18 23
16.45	40	9.99	22 45	16.45	54	13.62	25 55	15.72	10	17.53	20 06	16.45	47	81.77	15 07	12.37	8	86.89	15 21
15.62	40	10.04	25 27	15.07	56	13.91	20 46	16.45	11	17.67	23 35	15.53	47	81.78	16 27	16.26	8	86.96	14 11
9.95	41	10.13	29 18	13.79	56	14.04	29 06	13.95	11	17.70	22 31	16.45	48	82.04	10 38	16.45	9	87.13	14 32
14.71	41	10.15	28 54	14.85	56	14.05	20 43	15.62	11	17.77	20 56	15.72	48	82.08	11 29	16.26	9	87.16	19 56
14.85	41	10.16	23 09	14.58	56	14.10	20 51	16.45	11	17.83	29 59	16.45	48	82.11	13 20	16.11	9	87.21	18 33
13.40	41	10.29	28 18	15.53	57	14.14	20 23	14.20	12	17.92	25 56	16.45	49	82.16	18 13	16.26	9	87.26	17 27
13.87	41	10.33	24 07	16.26	57	14.24	29 28	13.21	12	17.92	28 43	11.02	50	82.39	13 37	16.45	9	87.27	16 10
15.62	42	10.54	22 17	15.03	57	14.26	27 27	12.55	12	18.01	22 42	16.45	50	82.43	10 28	15.25	10	87.57	12 47
16.45	42	10.57	23 31	15.86	57	14.36	21 23	15.25	12	18.12	25 31	16.45	51	82.64	19 47	13.60	11	87.73	12 16
16.45	43	10.77	27 07	15.86	48 0	14.89	27 49	16.45	13	18.23	22 42	14.07	52	83.07	12 46	12.73	11	87.76	12 57
15.48	43	10.80	24 54	15.30	0	14.94	25 01	12.20	13	18.23	22 01	13.99	53	83.15	12 37	15.25	12	87.88	11 01
14.37	43	10.81	21 34	15.30	1	15.16	28 11	14.41	13	18.30	21 48	15.30	53	83.20	10 58	16.01	12	88.00	18 48
16.45	43	10.82	21 48	15.48	1	15.30	23 51	12.91	13	18.32	27 06	15.77	53	83.29	12 01	14.62	12	88.12	17 57
15.39	43	10.84	26 38	16.45	2	15.38	24 01	16.45	14	18.46	23 58	16.45	54	83.46	16 09	13.67	13	88.15	15 37
13.75	44	11.00	20 45	16.45	2	15.38	27 31	14.80	14	18.60	29 42	15.86	54	83.51	17 05	16.45	13	88.20	15 09
16.01	44	11.00	20 10	16.45	2	15.39	25 06	15.62	15	18.66	23 39	14.89	55	83.75	10 16	16.26	13	88.23	18 54
10.09	44	11.12	26 04	16.45	2	15.42	22 52	15.25	15	18.73	25 38	12.20	55	83.78	19 35	14.80	13	88.35	12 20
16.26	45	11.18	20 36	14.37	2	15.44	21 06	15.16	15	18.76	21 39	16.45	56	84.01	13 48	16.26	14	88.39	15 19
16.45	45	11.22	25 19	15.07	2	15.47	23 38	15.30	16	18.88	29 59	14.94	56	84.12	15 12	13.37	15	88.72	17 17
16.11	45	11.22	28 07	14.20	2	15.60	22 36	14.94	16	18.95	26 09	14.62	57	84.26	18 33	15.16	15	88.85	10 07
15.03	45	11.29	21 47	16.45	3	15.82	21 40	15.25	16	19.09	22 25	16.01	57	84.29	15 46	15.48	16	89.03	16 22
14.94	45	11.32	21 10	15.86	4	15.97	20 37	14.28	17	19.17	26 09	14.16	57	84.36	19 17	16.45	17	89.14	12 04
15.16	45	11.33	29 35	16.45	4	16.03	26 20	16.45	17	19.36	27 02	14.41	59	84.65	18 57	12.37	17	89.22	17 23
13.79	46	11.42	21 10	16.01	4	16.05	25 01	15.16	18	19.38	28 17	14.37	59	84.65	12 08	15.77	17	89.25	16 55
15.03	47	11.64	22 29	15.03	4	16.07	25 10	16.11	18	19.41	23 51	16.45	59	84.65	11 39	14.49	17	89.25	13 50
15.16	47	11.64	29 32	15.62	4	16.07	21 55	15.03	18	19.59	21 28	14.80	59	84.65	10 16	16.26	18	89.42	18 48
15.86	47	11.73	20 48	15.72	6	16.39	21 09	15.86	18	19.59	25 39	15.96	59	84.66	19 30	16.45	18	89.49	18 09
14.16	47	11.81	24 08	15.86	6	16.44	29 25	14.85	19	19.70	21 20	14.37	59	84.74	19 06	14.85	18	89.57	17 20
15.96	48	11.97	24 08	15.25	6	16.54	26 18	16.45	19	19.76	28 58	16.01	59	84.77	11 08	13.48	19	89.66	11 13
15.25	49	12.13	29 36	15.77	6	16.58	21 21	13.79	20	19.97	20 16	16.26	59	84.82	17 22	16.45	20	90.09	18 56
14.80	49	12.13	28 10	10.40	7	16.66	22 27	16.11	20	20.04	25 55	14.58	59	84.85	14 12	16.45	21	90.13	14 29
15.77	49	12.27	28 20	15.03	7	16.66	24 49	16.45	21	20.22	28 45	16.45	46 0	84.95	13 38	16.45	21	90.20	12 50
12.73	49	12.37	28 23	16.11	7	16.66	26 43	16.45	21	20.22	22 03	13.87	0	84.97	18 50	16.26	21	90.29	18 49

25 prec. + 77 sec. — 1′ 43″.

551—600				601—650				651—700				701—750				751—800			
Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.21	46 22	90.51	12 42	15.25	46 38	94.57	11 27	15.96	46 58	99.50	16 05	16.45	47 16	4.09	10 07	16.26	47 40	10.06	11 52
15.07	22	90.53	17 41	16.45	39	94.69	17 28	14.80	58	99.53	14 48	16.45	17	4.21	14 58	16.45	40	10.07	13 17
16.26	22	90.58	17 03	16.26	39	94.72	14 36	9.38	58	99.54	11 09	14.80	19	4.74	17 26	12.03	40	10.10	10 42
15.16	22	90.61	15 29	15.48	40	95.04	15 51	16.11	59	99.70	14 09	14.37	19	4.76	18 29	15.86	41	10.20	16 18
15.62	23	90.63	18 22	15.62	40	95.11	10 37	14.20	59	99.71	16 47	15.53	19	4.82	10 47	14.80	41	10.24	14 54
13.95	23	90.73	17 47	12.20	40	95.11	12 52	16.26	59	99.79	17 45	13.67	20	5.04	17 36	15.16	42	10.38	10 07
15.72	23	90.73	18 02	10.76	41	95.19	19 20	14.41	59	99.84	15 51	16.45	21	5.14	17 08	14.58	44	10.90	11 28
15.72	24	90.93	15 34	15.03	41	95.21	11 10	15.25	47 0	99.97	17 07	16.45	21	5.21	14 09	13.10	44	10.95	14 46
16.26	24	90.94	10 07	15.77	41	95.31	15 00	16.45	1	0.35	19 30	13.48	22	5.47	11 08	12.73	44	11.04	10 45
16.26	24	90.95	16 36	14.28	41	95.34	15 09	16.26	2	0.39	12 05	13.87	22	5.48	19 18	14.94	45	11.13	13 21
16.01	24	90.96	12 09	12.73	41	95.35	13 54	16.01	2	0.52	19 59	15.96	23	5.68	11 31	13.40	45	11.21	14 27
12.37	24	90.98	11 54	13.95	42	95.43	17 11	14.28	3	0.65	11 46	11.86	23	5.81	13 04	13.75	46	11.42	11 25
14.16	25	91.26	19 21	12.03	42	95.43	19 23	14.07	3	0.69	11 49	16.45	24	5.99	12 28	12.03	46	11.46	10 44
15.25	26	91.42	14 58	16.11	42	95.47	13 26	16.11	3	0.69	18 40	16.45	25	6.15	11 40	15.03	46	11.53	11 29
16.45	26	91.52	14 45	15.53	42	95.59	13 44	16.45	3	0.70	14 55	15.62	25	6.18	10 45	15.30	46	11.54	11 36
16.45	27	91.63	14 27	16.45	43	95.64	17 39	12.55	3	0.85	16 23	16.45	26	6.43	11 48	14.28	47	11.63	18 58
16.26	27	91.72	11 01	15.53	43	95.70	19 27	8.20*	4	0.89	10 32	15.62	26	6.54	19 06	15.34	47	11.63	19 47
14.16	27	91.76	11 36	14.58	43	95.74	14 09	15.62	4	0.96	13 53	16.45	27	6.63	13 36	16.45	47	11.68	19 18
15.77	29	92.18	17 06	13.67	43	95.85	18 26	15.86	4	1.10	12 31	14.41	27	6.67	18 30	16.01	47	11.68	11 03
16.45	30	92.60	11 30	16.11	43	95.87	10 35	12.91	5	1.18	12 06	16.11	27	6.85	18 47	12.73	47	11.69	16 35
15.86	31	92.63	14 29	13.79	44	96.04	19 31	13.99	5	1.30	11 11	16.45	28	6.91	13 55	15.77	47	11.75	15 26
15.16	31	92.65	14 10	15.86	45	96.16	13 22	15.16	6	1.45	15 19	15.44	28	6.98	10 11	14.28	47	11.85	19 35
14.58	31	92.71	18 13	15.53	45	96.21	19 18	13.79	6	1.46	15 00	14.85	28	7.12	19 02	16.45	48	12.10	12 10
15.62	31	92.72	19 00	14.41	45	96.26	13 08	16.26	6	1.48	13 41	11.86	31	7.63	12 07	16.45	50	12.38	19 18
13.87	32	93.09	16 58	16.45	46	96.38	10 44	14.28	7	1.64	12 30	14.80	31	7.67	17 12	16.45	50	12.46	16 34
16.26	32	93.11	17 59	15.62	46	96.39	13 38	13.99	7	1.72	12 10	15.96	31	7.73	16 01	14.16	50	12.50	15 34
13.29	33	93.13	15 22	15.16	46	96.60	14 55	14.94	7	1.76	13 30	13.87	32	7.88	16 34	11.60	50	12.61	17 13
15.53	33	93.16	13 02	16.45	47	96.69	19 40	15.16	9	2.15	19 07	16.45	32	7.93	12 39	13.10	50	12.61	15 42
16.45	33	93.23	11 55	14.94	47	96.74	10 31	13.56	9	2.16	15 15	15.62	32	8.00	17 59	15.96	51	12.77	14 50
14.54	33	93.33	19 37	16.45	47	96.80	12 05	14.62	9	2.33	13 40	16.45	33	8.18	19 41	10.48	52	13.03	17 24
14.16	33	93.33	18 37	16.45	48	97.08	19 08	15.39	10	2.43	16 00	13.87	33	8.20	15 46	16.45	53	13.29	11 12
12.37	34	93.44	13 05	11.37	48	97.11	18 52	13.75	10	2.43	12 30	14.28	33	8.24	15 56	15.16	54	13.43	15 44
15.53	35	93.75	10 46	16.45	49	97.24	11 49	15.48	10	2.49	11 09	12.80	33	8.32	10 01	15.25	54	13.45	17 38
15.77	35	93.75	11 50	14.71	49	97.25	13 48	14.12	11	2.63	19 32	16.01	34	8.41	19 16	12.73	55	13.73	16 38
15.48	35	93.75	17 29	16.45	50	97.41	15 05	12.03	12	2.96	13 07	14.41	34	8.42	13 28	14.94	56	13.94	17 24
15.25	35	93.77	11 00	16.45	50	97.57	10 29	16.01	12	2.96	17 58	15.48	35	8.64	14 32	14.94	56	13.99	15 41
15.39	35	93.78	16 11	14.49	51	97.69	15 41	14.71	12	3.07	14 02	16.45	35	8.71	11 48	16.01	57	14.15	11 21
15.39	36	94.02	10 16	15.16	51	97.73	15 29	12.55	12	3.07	16 22	15.96	35	8.80	12 48	16.11	57	14.32	18 31
15.96	36	94.05	16 01	16.45	51	97.83	12 58	16.45	13	3.19	15 17	14.49	35	8.82	15 50	13.56	57	14.37	19 59
15.62	36	94.07	15 14	16.45	51	97.83	19 57	16.45	13	3.24	18 41	12.37	35	8.82	17 58	13.48	58	14.43	10 52
14.80	36	94.07	13 01	12.20	52	97.99	15 18	14.85	13	3.37	12 26	14.80	36	8.99	10 48	16.45	58	14.55	16 22
15.53	37	94.18	17 58	15.30	52	98.08	14 24	16.45	14	3.38	18 21	16.26	36	9.05	10 55	16.45	59	14.64	10 56
15.72	37	94.22	17 22	11.04	53	98.21	15 20	16.45	14	3.38	18 56	15.16	36	9.06	14 17	16.26	59	14.76	15 13
13.87	37	94.29	18 58	14.76	55	98.69	19 48	14.20	14	3.47	19 16	16.45	37	9.13	15 07	15.72	59	14.87	15 06
15.77	37	94.35	13 38	15.96	56	98.88	17 04	11.64	15	3.69	19 27	16.01	37	9.15	19 07	14.58	48 0	14.88	17 39
13.60	38	94.38	15 56	15.86	56	98.90	14 08	12.03	15	3.80	14 24	16.45	38	9.42	13 24	15.86	0	15.05	13 28
14.41	38	94.39	14 56	16.26	56	99.01	19 55	15.48	15	3.82	15 39	16.45	38	9.50	11 52	12.20	0	15.10	14 14
15.25	38	94.41	16 44	12.91	57	99.22	12 30	15.48	16	3.90	19 33	14.37	38	9.59	15 57	15.86	0	15.10	13 09
15.03	38	94.48	17 28	16.45	58	99.40	16 36	15.30	16	3.91	12 07	15.62	40	9.89	12 28	13.40	0	15.12	11 32
11.07	38	94.48	18 28	11.86	58	99.44	12 30	14.71	16	4.01	11 18	14.41	40	9.98	17 24	16.45	1	15.21	17 14

25 prec. + 77 sec. — 1′ 42″.

801—850				851—900				901—950				951—1000				1001—1050			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.94	48 1	15.21	10 28	16.26	48 19	19.72	19 35	16.45	46 0	85.07	8 57	13.75	46 17	89.25	3 28	15.62	46 36	94.06	1 24
15.07	1	15.34	13 49	15.39	19	19.80	18 11	15.48	0	85.09	4 15	13.48	17	89.27	3 53	14.62	36	94.07	8 46
14.41	2	15.41	14 44	15.30	19	19.81	13 50	10.01	1	85.16	8 33	12.66	17	89.33	9 52	15.96	37	94.17	2 36
14.85	2	15.53	17 35	14.85	20	19.95	14 23	15.96	1	85.30	3 18	14.58	18	89.43	6 04	14.24	37	94.27	0 16
13.99	3	15.63	19 36	15.03	20	20.02	19 09	12.91	2	85.41	3 42	16.45	18	89.57	0 56	16.45	39	94.69	3 50
16.45	3	15.72	14 11	12.73	20	20.07	12 36	16.45	2	85.44	6 35	16.45	19	89.63	6 31	12.91	39	94.70	8 59
13.29	3	15.73	19 17	15.07	20	20.09	19 58	16.26	2	85.50	7 13	14.94	19	89.67	3 13	13.67	39	94.83	8 52
12.37	3	15.79	15 03	16.26	22	20.42	15 45	16.45	2	85.51	2 35	16.45	19	89.68	6 16	15.16	39	94.84	6 44
14.85	3	15.79	17 18	14.62	22	20.57	11 33	15.77	2	85.60	1 05	16.26	19	89.69	7 26	14.28	40	94.98	3 40
11.29	4	15.88	19 38	15.16	23	20.76	10 07	14.54	4	86.01	0 14	16.26	19	89.76	7 55	15.30	40	95.01	2 03
16.11	4	15.97	14 08	15.25	23	20.76	12 01	13.60	4	86.01	0 58	13.48	20	90.02	8 33	16.11	40	95.10	0 02
15.39	4	16.03	18 07	12.03	24	20.95	14 40	13.79	5	86.20	4 26	14.07	21	90.24	4 41	15.62	41	95.29	3 05
15.39	4	16.10	19 31	15.25	24	20.96	16 01	15.39	5	86.23	1 29	15.53	21	90.29	8 45	14.58	41	95.30	1 29
15.72	5	16.21	13 49	11.20	45 44	81.03	8 31	16.11	5	86.25	5 54	13.10	21	90.32	3 29	15.30	41	95.31	5 28
12.73	5	16.35	14 43	15.96	44	81.09	6 21	14.37	6	86.56	8 44	14.71	22	90.38	5 31	16.45	42	95.45	0 21
16.45	6	16.46	12 11	16.45	45	81.21	3 27	14.71	6	86.61	2 15	13.75	22	90.38	9 22	16.26	43	95.66	6 04
15.30	6	16.57	10 39	15.53	45	81.30	0 35	14.58	7	86.66	3 25	14.71	22	90.39	6 24	16.45	44	95.95	5 40
14.49	6	16.58	12 32	12.73	45	81.34	2 25	16.45	7	86.76	3 57	16.45	22	90.41	3 00	14.62	44	95.97	8 25
15.96	7	16.69	12 07	16.45	46	81.52	7 01	15.39	7	86.77	9 36	16.45	22	90.49	4 27	15.77	45	96.26	6 01
13.95	7	16.74	15 37	15.62	47	81.64	0 48	14.80	8	86.88	0 58	13.67	23	90.70	1 44	15.72	46	96.51	7 46
13.95	7	16.81	11 18	14.71	47	81.76	3 19	15.86	8	86.93	7 36	13.56	24	90.96	6 28	14.58	47	96.67	6 46
16.45	8	16.91	15 04	11.48	47	81.84	3 40	14.94	8	86.93	9 28	15.39	24	91.06	0 43	16.45	47	96.78	8 11
13.56	8	17.00	10 22	16.45	48	82.03	0 47	16.45	8	86.94	1 16	12.66	24	91.07	0 06	15.53	48	97.01	7 28
13.29	8	17.01	12 11	15.25	48	82.04	2 28	16.45	8	86.94	7 47	12.73	24	91.08	0 49	15.48	49	97.30	7 14
14.71	9	17.20	13 15	15.48	48	82.12	6 02	16.45	8	87.03	2 55	11.86	24	91.10	4 21	13.99	49	97.30	5 44
14.85	10	17.42	10 46	14.07	49	82.24	2 07	16.45	8	87.06	8 46	14.62	26	91.42	2 53	15.72	49	97.31	1 32
14.07	10	17.43	11 07	16.45	49	82.36	3 55	15.07	8	87.06	2 07	14.37	27	91.65	6 15	15.53	50	97.49	2 49
13.10	10	17.45	19 51	16.45	49	82.37	6 01	15.53	9	87.36	9 36	10.99	27	91.66	4 23	14.32	50	97.50	0 05
14.28	10	17.48	13 47	12.91	50	82.50	0 33	14.94	9	87.37	7 17	12.91	27	91.76	2 19	12.55	50	97.53	3 43
16.45	10	17.52	14 28	16.45	50	82.58	2 45	14.28	9	87.37	8 05	15.16	27	91.77	9 15	15.77	51	97.72	0 53
13.95	10	17.58	10 25	16.45	51	82.77	3 45	16.11	10	87.49	0 52	14.85	28	92.07	1 06	15.16	51	97.72	4 27
15.48	11	17.64	11 38	15.30	51	82.87	8 25	12.55	11	87.68	9 21	15.86	28	92.09	5 28	15.72	51	97.74	7 20
15.86	11	17.75	19 09	13.60	52	82.96	3 03	13.87	11	87.79	2 46	15.62	29	92.15	2 28	16.45	52	97.99	2 19
13.33	11	17.83	10 10	15.86	52	82.97	2 16	16.45	11	87.87	8 35	14.16	29	92.29	7 37	14.94	52	98.02	2 36
16.45	12	17.88	13 28	13.99	52	83.09	8 36	16.11	12	87.99	1 05	15.21	30	92.38	0 24	15.25	52	98.09	8 40
12.91	12	17.98	19 45	14.16	54	83.48	0 06	16.45	12	87.99	5 06	15.53	30	92.54	7 54	15.72	53	98.17	9 56
13.99	14	18.54	13 44	12.03	54	83.48	3 31	14.20	12	88.08	5 25	15.53	31	92.72	1 50	16.45	54	98.52	5 55
16.45	15	18.63	14 35	16.45	54	83.60	4 35	15.72	13	88.21	1 54	13.10	31	92.74	5 51	14.71	55	98.78	8 00
14.49	15	18.74	17 49	15.86	54	83.61	6 03	16.45	13	88.30	7 57	16.45	31	92.81	8 51	14.07	56	98.95	8 25
15.39	15	18.77	18 04	15.30	55	83.64	3 52	15.03	13	88.32	8 43	16.45	32	93.03	4 20	15.16	56	98.98	7 08
15.25	15	18.83	16 03	15.62	55	83.95	7 30	15.39	13	88.35	1 47	16.45	33	93.23	9 36	16.45	56	99.09	4 36
15.53	15	18.83	12 27	16.26	57	84.21	0 09	12.37	14	88.47	7 52	15.48	34	93.56	3 19	15.77	57	99.36	1 47
15.48	15	18.87	15 49	13.67	57	84.23	6 39	16.26	14	88.51	5 51	16.45	34	93.61	7 17	16.45	57	99.40	7 54
13.29	15	18.87	16 55	14.62	57	84.24	5 04	16.45	14	88.52	7 29	15.39	35	93.66	0 07	13.95	58	99.58	5 23
16.45	16	18.99	12 18	13.75	58	84.40	2 48	15.72	14	88.52	7 12	15.48	35	93.71	4 03	14.62	58	99.60	5 07
12.91	17	19.26	11 13	16.45	58	84.47	2 04	12.20	14	88.52	2 59	13.67	35	93.71	7 51	14.41	58	99.60	4 55
16.45	18	19.38	14 13	15.39	58	84.60	3 27	15.39	15	88.70	4 06	16.11	35	93.84	8 48	13.29	59	99.65	0 43
15.25	18	19.48	14 17	14.28	59	84.65	7 17	15.62	15	88.72	8 51	11.04	35	93.86	9 45	15.53	47 0	99.95	2 55
15.53	18	19.57	18 47	12.37	59	84.77	2 22	16.45	16	88.90	1 59	14.58	36	93.99	5 57	16.45	0	0.02	2 17
16.45	19	19.70	19 25	16.45	46 0	85.02	4 45	16.17	17	89.17	0 15	15.96	36	94.04	0 17	13.60	0	0.05	0 02

25 prec. + 77 sec. — 1′ 42″.

1051—1100				1101—1150				1151—1200				1201—1250				1251—1300			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	$\overline{′ ″}$		m s	′	$\overline{′ ″}$		m s	′	$\overline{′ ″}$		m s	′	$\overline{′ ″}$		m s	′	′ ″
16.45	47 1	0.16	9 55	15.48	47 21	5.16	4 34	16.45	47 42	10.49	4 37	16.45	48 1	15.33	3 49	14.41	48 16	18.89	−2 04
16.45	1	0.24	6 26	12.03	21	5.25	6 30	16.45	42	10.54	0 05	16.01	2	15.41	7 05	14.49	16	18.95	7 37
15.86	1	0.30	2 18	15.86	22	5.47	4 57	15.03	42	10.61	7 28	15.16	2	15.57	4 24	15.25	16	18.97	1 08
15.72	2	0.42	3 07	14.58	23	5.75	6 06	16.45	43	10.84	6 14	16.45	2	15.61	1 33	14.16	16	19.02	2 38
15.07	2	0.42	1 27	15.86	23	5.78	4 37	13.56	44	10.92	7 43	14.58	3	15.64	4 31	15.16	16	19.05	3 51
15.96	2	0.45	2 55	15.62	25	6.27	9 01	16.26	44	11.01	8 06	13.79	3	15.73	2 14	13.10	16	19.09	2 53
13.75	2	0.56	2 07	16.01	25	6.30	4 07	15.07	44	11.04	3 36	13.91	3	15.76	0 06	14.94	18	19.49	1 16
16.45	2	0.60	2 16	16.17	25	6.31	9 30	12.55	45	11.37	8 11	15.62	3	15.86	9 34	15.03	18	19.55	8 06
13.95	3	0.65	5 08	14.85	26	6.38	9 24	15.39	47	11.77	7 03	15.48	4	15.91	7 05	16.45	18	19.61	9 12
13.79	4	0.92	1 28	15.62	26	6.44	2 32	15.48	48	11.89	6 56	12.37	4	15.95	5 00	13.21	19	19.70	2 17
14.71	4	0.94	7 47	16.11	26	6.49	4 24	16.45	48	11.96	1 13	14.71	4	16.04	3 58	15.96	19	19.73	5 35
15.72	5	1.19	2 04	14.16	28	6.95	8 09	15.77	48	12.08	1 46	11.20	5	16.23	5 16	16.45	19	19.81	8 10
13.87	6	1.38	7 21	12.73	28	6.97	9 26	16.45	49	12.21	6 24	16.45	5	16.37	1 30	14.28	20	19.91	6 58
16.45	7	1.64	3 50	16.01	28	7.04	0 35	14.85	49	12.29	2 28	13.99	5	16.37	4 05	15.96	20	19.94	1 38
15.39	7	1.66	6 51	16.45	28	7.10	9 01	16.11	50	12.39	8 22	15.12	6	16.38	9 46	14.41	20	20.05	8 35
14.62	7	1.71	9 02	14.41	29	7.22	5 28	13.67	50	12.43	3 38	10.63	6	16.43	5 15	15.07	20	20.06	7 06
15.86	7	1.72	9 08	12.37	29	7.36	6 19	14.16	50	12.46	1 38	13.29	6	16.51	5 03	16.45	21	20.32	2 56
14.16	7	1.80	4 14	16.45	30	7.44	0 58	13.87	50	12.58	7 03	15.86	7	16.64	9 35	15.34	22	20.46	0 12
14.94	7	1.82	4 27	12.03	30	7.45	7 19	15.86	52	12.89	3 17	16.26	7	16.66	5 27	15.39	22	20.52	5 15
15.86	7	1.83	8 45	11.86	30	7.53	6 20	13.75	52	12.90	6 12	16.45	7	16.67	4 26	10.23	22	20.54	1 38
15.86	8	1.99	6 18	15.07	31	7.66	4 23	16.45	52	13.04	0 55	12.37	7	16.73	4 55	15.72	23	20.75	2 17
15.77	8	2.02	1 29	13.83	31	7.67	9 50	16.11	52	13.08	0 03	16.45	7	16.77	2 36	15.72	23	20.75	2 00
16.45	8	2.05	0 24	15.30	31	7.73	0 44	15.07	52	13.09	4 06	16.45	7	16.79	3 21	13.48	23	20.75	8 08
16.45	9	2.23	9 03	13.48	31	7.78	9 19	15.53	53	13.24	7 46	15.86	8	17.07	4 12	15.30	23	20.81	9 09
16.45	9	2.27	3 24	16.26	32	7.97	4 15	13.29	53	13.30	4 03	15.53	8	17.08	2 36	16.45	23	20.86	2 41
15.96	11	2.81	0 30	13.40	32	8.04	0 02	16.45	54	13.43	7 59	14.62	9	17.13	7 28	14.58	24	20.95	1 21
14.41	11	2.81	4 15	16.45	32	8.09	5 09	16.01	54	13.48	1 25	14.62	9	17.19	8 26	15.96	24	20.95	−6 57
16.11	12	2.96	5 35	13.95	32	8.11	1 28	15.77	54	13.48	8 17	15.72	9	17.19	3 05	14.41	45 44	81.02	+6 37
16.45	12	2.98	7 05	16.45	33	8.17	6 49	16.26	54	13.53	2 31	16.45	9	17.28	9 16	14.07	44	81.02	5 05
14.71	13	3.15	9 57	16.45	33	8.22	8 59	15.53	54	13.61	9 55	16.26	9	17.29	7 30	16.45	45	81.22	4 27
14.49	13	3.27	4 19	14.71	34	8.43	9 22	15.48	54	13.61	7 25	14.20	9	17.32	6 26	13.10	45	81.30	7 34
15.62	13	3.31	7 03	15.16	34	8.51	4 20	15.16	55	13.66	5 09	12.20	10	17.39	4 01	10.98	45	81.31	2 35
13.29	14	3.38	2 19	14.49	35	8.85	1 05	15.62	55	13.75	0 22	15.86	10	17.41	4 25	15.07	46	81.43	3 17
16.45	14	3.39	3 14	15.30	36	8.95	8 21	12.03	55	13.81	8 22	14.49	10	17.41	8 04	16.45	46	81.43	0 28
16.45	14	3.44	3 49	13.99	36	9.03	7 23	12.37	56	14.06	0 41	16.11	10	17.43	2 35	16.11	47	81.69	6 07
15.72	14	3.49	6 16	14.85	37	9.17	0 31	15.86	56	14.08	4 01	15.53	10	17.59	0 53	15.25	47	81.74	1 53
15.30	14	3.54	8 38	11.66	37	9.24	4 01	16.01	57	14.16	1 38	13.29	11	17.67	8 11	15.39	47	81.76	4 17
13.52	14	3.56	0 23	15.96	37	9.35	3 04	13.60	57	14.22	0 55	15.53	11	17.68	2 56	15.30	47	81.82	9 33
13.40	15	3.68	7 49	16.26	39	9.72	1 37	13.99	57	14.37	5 14	12.80	11	17.84	9 30	16.45	48	82.03	9 04
15.96	15	3.69	0 35	16.45	39	9.77	8 54	14.62	58	14.39	5 58	16.45	13	18.18	0 42	14.71	49	82.13	4 15
15.86	15	3.86	5 14	16.45	39	9.82	7 09	14.71	58	14.48	1 56	13.67	13	18.26	4 32	15.25	49	82.18	0 00
16.01	16	4.09	4 45	15.30	39	9.82	7 32	9.89	58	14.49	2 10	16.26	13	18.27	2 07	15.53	49	82.37	3 01
13.67	17	4.23	5 37	15.53	39	9.83	6 36	15.30	58	14.54	6 52	14.85	13	18.35	5 06	16.26	50	82.61	7 52
16.45	17	4.27	1 31	14.58	39	9.85	9 08	12.20	58	14.58	6 28	15.25	14	18.39	9 24	16.26	51	82.63	2 27
13.64	18	4.38	9 32	14.94	40	9.97	8 50	12.91	59	14.82	5 50	13.48	14	18.54	5 24	16.26	51	82.77	7 32
12.20	18	4.56	0 52	15.86	40	10.10	7 40	13.40	59	14.85	4 18	15.48	15	18.65	7 17	15.48	52	83.07	7 25
16.45	19	4.80	3 41	15.03	40	10.10	6 34	16.45	48 0	14.96	9 21	15.62	15	18.67	1 06	14.85	53	83.17	7 35
16.45	19	4.83	6 18	15.07	40	10.10	6 15	14.20	0	14.98	1 34	15.77	15	18.75	9 15	14.16	54	83.40	0 54
14.41	19	4.83	8 01	13.40	41	10.16	0 15	15.34	0	15.03	0 05	15.07	15	18.87	6 19	14.20	54	83.44	4 32
16.45	20	5.00	0 42	15.86	42	10.39	4 24	14.80	1	15.21	6 30	13.99	16	18.88	5 58	14.58	54	83.51	+1 33

25 prec. + 77 sec. — 1′ 43″.

Area 98.

1301—1350				1351—1400				1401—1450				1451—1500				1501—1550			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
11.96	45 55	83.67	0 09	16.45	46 14	88.43	6 58	15.25	46 35	93.85	9 41	13.10	46 52	98.01	4 08	12.37	47 9	2.15	0 47
16.11	55	83.81	9 40	15.16	14	88.45	0 03	15.53	36	93.93	8 59	15.62	52	98.05	1 55	15.25	9	2.16	0 10
15.48	55	83.81	1 56	11.06	14	88.53	0 28	16.45	36	94.11	4 54	16.45	53	98.19	8 34	14.49	9	2.28	2 35
16.45	55	83.87	8 55	12.03	15	88.63	0 10	15.48	36	94.11	2 27	15.72	53	98.28	2 17	13.79	9	2.28	0 19
15.77	56	83.96	6 35	15.62	15	88.66	3 53	10.90	37	94.17	9 29	15.86	54	98.44	5 14	10.96	9	2.34	0 38
16.45	57	84.16	6 22	15.62	15	88.69	2 23	14.62	37	94.18	0 28	11.96	54	98.61	0 00	15.72	10	2.54	3 08
10.88	57	84.16	1 21	15.25	16	89.07	1 27	14.80	37	94.31	5 45	16.01	55	98.81	7 54	15.62	10	2.55	2 16
13.10	57	84.28	7 26	16.26	18	89.38	7 44	13.87	37	94.31	9 24	15.16	55	98.86	1 43	13.95	11	2.63	3 17
13.67	57	84.33	7 31	15.53	18	89.57	2 54	15.53	37	94.35	7 32	15.77	56	98.92	6 04	13.99	11	2.73	7 33
14.71	58	84.43	7 51	16.45	19	89.65	9 03	14.94	38	94.38	7 12	16.11	56	99.01	5 12	14.85	12	2.88	6 54
15.77	58	84.45	9 33	14.71	19	89.71	0 46	15.16	38	94.49	5 13	13.79	57	99.28	1 35	12.91	12	2.89	3 07
16.45	58	84.59	1 42	15.39	19	89.76	4 04	15.07	38	94.50	4 52	16.11	58	99.40	2 12	15.48	13	3.23	0 38
16.11	59	84.65	5 34	16.45	19	89.81	3 03	16.45	38	94.56	8 26	12.55	58	99.40	1 24	11.86	13	3.26	1 55
16.45	59	84.65	2 09	14.16	20	89.88	2 51	15.07	39	94.69	8 39	15.25	58	99.44	1 16	15.30	13	3.26	0 58
16.45	59	84.75	1 17	14.71	21	90.28	0 30	16.01	40	94.88	2 13	16.01	58	99.61	8 11	14.94	13	3.32	3 02
15.25	59	84.83	7 43	13.48	21	90.35	6 34	14.49	40	94.91	2 41	16.45	59	99.63	9 36	15.16	14	3.54	0 22
16.26	59	84.83	9 35	10.21	21	90.36	5 08	16.11	40	95.01	6 54	16.45	59	99.77	3 37	16.11	14	3.58	8 07
10.88	59	84.87	9 57	16.45	22	90.40	9 05	12.91	40	95.01	5 20	16.01	59	99.80	7 53	13.29	14	3.59	1 00
16.45?	59	84.88	6 11	11.62	22	90.40	1 00	12.73	40	95.03	3 50	15.48	47 0	99.89	3 53	16.45	15	3.71	0 43
16.26	46 0	85.07	5 37	13.29	22	90.53	3 10	15.48	40	95.12	2 30	14.85	0	99.94	1 53	14.49	15	3.79	6 51
16.45	0	85.10	2 22	14.80	22	90.60	6 02	16.45	41	95.14	2 13	15.39	1	0.24	3 14	16.45	16	4.11	4 10
16.11	1	85.17	5 07	16.45	23	90.67	7 28	15.77	41	95.21	5 36	13.60	1	0.25	4 51	13.48	17	4.22	6 02
16.45	2	85.47	0 36	12.55	23	90.82	6 02	15.62	42	95.43	5 24	14.94	2	0.46	3 35	13.56	17	4.29	5 46
15.96	2	85.49	6 42	15.72	23	90.82	3 34	13.48	44	95.91	2 06	15.72	3	0.66	5 46	14.98	17	4.33	0 32
14.28	2	85.51	3 52	16.11	24	91.07	0 21	16.45	44	95.97	6 54	12.73	3	0.66	1 31	16.45	17	4.36	2 33
15.30	2	85.56	0 43	15.30	24	91.10	1 14	13.29	45	96.18	6 09	15.48	3	0.67	4 43	14.71	18	4.58	6 32
15.53	2	85.59	8 30	15.53	25	91.15	7 45	13.29	45	96.25	4 56	15.30	3	0.69	3 03	14.24	19	4.75	0 31
14.37	3	85.64	4 59	14.80	25	91.22	4 42	16.11	45	96.26	2 42	14.94	3	0.77	4 50	15.48	19	4.76	9 24
16.45	3	85.71	1 33	15.72	25	91.28	6 59	12.91	45	96.37	6 40	14.28	3	0.86	8 04	14.80	19	4.82	5 06
14.85	3	85.73	9 27	14.94	25	91.35	5 42	15.62	46	96.62	8 29	15.25	4	0.91	0 28	10.48	19	4.82	8 14
14.16	3	85.74	3 23	14.16	26	91.48	9 02	14.28	47	96.68	9 51	15.86	4	0.98	8 57	16.01	20	4.88	9 49
16.45	3	85.79	6 02	14.07	26	91.55	7 45	15.48	47	96.70	4 05	15.07	4	1.12	6 50	16.45	20	5.03	7 35
14.85	3	85.85	3 11	14.85	28	91.89	0 22	16.45	47	96.71	0 35	15.39	5	1.16	9 55	16.45	21	5.16	6 18
14.94	4	85.95	9 43	12.73	29	92.16	3 35	13.10	47	96.76	5 50	14.07	5	1.23	6 43	10.38	22	5.39	7 41
16.45	4	86.01	7 07	16.26	29	92.18	8 29	16.45	47	96.79	2 54	16.45	6	1.39	7 44	11.86	22	5.57	9 14
15.44	4	86.02	0 20	16.45	29	92.18	9 51	15.16	48	96.86	1 14	15.39	6	1.41	5 04	16.26	24	5.96	5 57
16.45	5	86.25	9 34	13.87	29	92.27	3 36	16.01	48	96.89	8 41	15.62	6	1.45	4 39	16.45	25	6.16	5 26
16.45	6	86.53	2 11	15.03	30	92.40	2 33	15.96	48	97.09	8 08	14.71	6	1.49	7 35	15.53	25	6.22	8 54
16.45	6	86.53	1 53	13.44	30	92.49	0 11	13.29	48	97.10	0 46	13.10	6	1.52	3 53	12.20	27	6.68	9 43
15.53	6	86.55	7 17	13.95	31	92.65	6 16	13.10	48	97.10	6 19	11.24	6	1.60	9 41	15.72	27	6.70	0 43
11.60	7	86.85	7 18	14.85	31	92.71	8 46	15.30	48	97.12	9 27	15.86	6	1.60	1 11	15.72	28	7.01	8 03
11.66	8	86.96	8 19	16.45	32	93.03	9 02	14.89	49	97.17	0 24	15.16	7	1.68	1 05	15.30	28	7.11	1 59
13.75	8	86.96	4 41	16.45	33	93.15	0 31	15.77	49	97.32	4 57	15.30	7	1.69	4 56	14.20	29	7.15	6 15
16.45	9	87.14	2 25	16.11	33	93.25	6 01	12.20	50	97.45	6 03	15.48	7	1.72	4 31	15.62	29	7.24	0 59
16.11	11	87.68	5 52	15.03	33	93.28	8 29	15.39	50	97.53	1 06	13.67	7	1.75	6 26	13.48	29	7.26	9 56
9.49*	11	87.80	3 31	15.77	33	93.29	0 29	15.25	51	97.68	4 12	13.29	7	1.78	4 49	16.45	30	7.47	8 48
16.45	11	87.85	7 05	16.45	34	93.53	0 51	15.34	51	97.80	0 35	16.26	7	1.85	6 06	12.44	31	7.67	0 12
15.30	13	88.17	0 06	13.95	35	93.65	4 49	15.91	51	97.81	0 16	16.45	8	2.01	7 36	14.28	31	7.68	8 34
16.45	13	88.31	6 04	15.07	35	93.75	8 32	15.72	51	97.86	9 55	16.45	8	2.05	9 36	12.73	31	7.75	8 37
16.45	13	88.34	5 50	15.03	35	93.77	4 42	14.71	52	97.93	3 32	16.45	8	2.12	1 40	16.26	31	7.78	5 37

25 prec. + 77 sec. — 1′ 42″.

Area 98.

1551—1590				1591—1630				1631—1670				1671—1702							
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn	α	x	$y-10'$				
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "				
14.85	47 31	7.78	4 23	16.01	47 45	11.21	8 14	16.45	48 2	15.41	1 40	15.48	48 15	18.84	4 25				
12.73	31	7.86	2 49	13.10	45	11.21	4 27	16.45	2	15.41	5 55	15.16	15	18.87	1 06				
16.45	32	7.88	9 01	16.26	45	11.28	5 13	11.86	2	15.50	9 07	12.20	15	18.87	5 07				
14.71	32	7.94	0 20	14.49	45	11.33	1 07	15.96	3	15.76	6 04	14.62	16	18.97	9 28				
14.58	32	8.04	4 23	14.80	45	11.33	0 18	12.03	4	15.93	4 47	13.99	17	19.29	3 05				
15.96	33	8.19	0 52	16.26	46	11.46	4 20	15.72	4	15.95	6 04	16.26	17	19.30	0 01				
16.45	33	8.20	4 16	14.20	46	11.52	8 45	15.53	4	15.99	6 52	12.03	17	19.32	9 10				
15.53	33	8.31	6 35	15.86	46	11.56	3 18	16.45	5	16.16	4 33	15.48	18	19.39	9 47				
14.28	33	8.34	3 54	16.45	47	11.80	6 42	15.39	5	16.34	6 22	15.16	18	19.47	9 33				
14.80	34	8.41	4 15	12.37	47	11.84	8 28	14.85	5	16.35	8 04	16.26	18	19.48	7 34				
16.45	34	8.41	5 36	16.45	49	12.17	9 31	14.49	7	16.69	1 35	15.48	18	19.59	6 29				
15.62	34	8.44	8 04	12.55	50	12.38	6 33	14.71	7	16.79	5 01	15.30	18	19.61	1 13				
15.77	34	8.44	8 58	13.48	50	12.42	2 57	15.62	8	16.94	7 26	16.45	18	19.62	1 48				
15.48	34	8.45	8 33	15.77	50	12.44	3 35	15.48	8	17.08	8 42	13.67	19	19.63	4 11				
13.79	34	8.52	3 44	16.11	50	12.59	7 54	16.26	8	17.11	2 24	15.53	19	19.71	7 36				
16.45	35	8.64	7 24	13.29	51	12.64	2 14	13.10	9	17.18	3 53	16.45	19	19.73	6 06				
12.37	35	8.77	4 09	15.77	51	12.74	3 51	12.91	9	17.19	8 44	16.26	19	19.74	2 26				
11.26	35	8.82	5 52	12.37	51	12.81	4 28	13.60	9	17.29	6 04	16.45	19	19.76	0 40				
13.87	37	9.16	3 26	13.21	51	12.84	1 07	14.16	9	17.36	4 30	15.86	20	19.95	5 03				
14.28	37	9.29	9 41	13.10	52	12.91	2 40	16.45	10	17.41	1 56	16.45	20	20.01	3 13				
15.62	37	9.35	3 52	13.79	52	13.01	9 35	13.95	10	17.51	5 17	14.71	20	20.02	6 03				
14.07	37	9.36	9 09	13.99	52	13.01	0 41	15.03	11	17.65	9 26	15.96	21	20.13	8 47				
15.30	39	9.87	7 04	16.11	52	13.11	0 09	15.25	11	17.73	4 23	16.11	21	20.16	0 26				
16.26	40	9.98	6 24	12.91	53	13.21	3 33	15.62	11	17.74	7 55	13.67	21	20.17	7 45				
15.96	40	10.11	3 43	12.20	53	13.28	2 44	16.45	11	17.79	1 05	14.28	21	20.26	0 27				
14.94	41	10.17	2 46	14.94	54	13.43	1 32	11.12	11	17.82	2 32	12.73	22	20.43	6 58				
15.62	41	10.29	5 23	13.40	54	13.56	3 05	15.62	11	17.85	6 17	13.48	22	20.55	0 53				
15.62	41	10.30	7 28	15.96	55	13.75	3 33	13.10	12	17.88	9 30	15.07	22	20.62	0 06				
14.85	41	10.33	9 03	16.26	56	13.89	3 23	14.41	12	18.04	1 37	12.73	23	20.71	5 27				
13.48	41	10.33	6 27	15.16	56	13.93	7 28	14.85	13	18.13	4 56	16.45	23	20.75	8 08				
14.62	42	10.41	9 34	10.79	57	14.21	1 56	15.25	13	18.30	5 46	16.45	23	20.80	8 23				
12.55	42	10.55	0 46	13.95	57	14.27	5 15	16.45	14	18.45	8 42	16.11	24	20.96	8 21				
14.80	42	10.60	8 44	13.87	57	14.31	7 11	13.67	14	18.48	6 39								
14.49	42	10.61	2 41	12.37	57	14.33	4 13	15.39	14	18.55	6 04								
16.45	43	10.82	9 12	13.10	59	14.67	1 46	12.55	14	18.55	4 40								
14.37	44	10.95	8 59	15.96	59	14.71	5 10	15.16	15	18.65	4 33								
13.67	44	10.99	2 56	16.45	59	14.82	4 05	16.01	15	18.76	2 46								
12.20	44	11.05	2 39	15.39	48 0	15.01	1 10	15.16	15	18.77	8 30								
13.87	44	11.09	1 21	15.07	0	15.09	5 12	11.52	15	18.77	9 47								
16.11	44	11.12	9 32	15.72	1	15.17	9 31	15.39	15	18.82	1 21								

25 prec. + 77 sec. — 1' 44".

Area 99. Centre for 1900: $7^h\ 50^m - 0^\circ\ 20'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	a	x	$y-20'$	Int. magn.	a	x	$y-20'$	Int. magn.	a	x	$y-20'$	Int. magn.	a	x	$y-20'$	Int. magn.	a	x	$y-20'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
14.68	48 21	75.38	31 49	13.60	49 50	97.49	30 43	14.70	50 57	14.31	36 33	13.73	49 16	88.89	26 29	14.52	50 19	4.86	22 20
14.95	22	75.54	36 57	14.19	52	97.90	30 11	14.68	57	14.33	33 53	12.66	17	89.19	22 07	14.50	21	5.35	20 10
13.08	25	76.33	39 13	14.95	53	98.22	34 06	11.34	59	14.80	37 07	14.86	21	90.22	20 32	13.44	22	5.46	29 56
14.95	27	76.76	33 26	11.33	54	98.55	32 05	14.25	51 0	14.88	31 21	13.87	21	90.32	28 31	13.73	22	5.48	26 18
12.66	27	76.82	32 20	14.70	56	98.93	32 47	14.58	48 23	75.73	24 13	11.92	21	90.35	27 54	14.86	23	5.82	23 54
11.72	28	76.91	34 02	13.98	58	99.49	35 36	14.36	23	75.83	27 40	14.95	22	90.40	20 03	13.98	24	6.04	28 01
14.21	28	76.92	38 14	14.95	58	99.50	39 33	12.36	24	76.01	29 42	14.86	22	90.60	25 24	12.23	25	6.23	27 50
11.72	29	77.34	36 37	14.52	59	99.71	38 18	14.95	26	76.60	23 01	14.95	23	90.70	29 34	11.98	26	6.43	22 58
14.25	34	78.42	39 24	11.76	50 1	0.36	31 28	13.73	27	76.68	26 25	14.17	24	91.02	28 04	14.86	29	7.20	25 27
14.86	34	78.60	36 45	14.95	3	0.73	34 54	14.68	27	76.82	22 54	14.95	25	91.27	28 22	14.70	30	7.53	28 00
14.45	37	79.15	32 27	11.18	6	1.40	33 28	14.68	29	77.17	25 12	14.36	26	91.46	27 44	14.95	31	7.86	26 32
12.45	37	79.15	33 33	13.73	6	1.44	36 20	14.41	32	77.90	21 07	14.95	27	91.68	23 27	13.98	32	7.97	20 30
13.73	37	79.25	38 28	12.66	7	1.72	34 02	14.56	33	78.14	22 34	13.28	28	92.10	26 37	14.10	32	8.01	25 16
13.08	40	79.93	33 13	14.28	13	3.14	30 29	12.45	33	78.29	21 47	14.56	28	92.11	22 22	14.95	33	8.17	28 41
14.95	40	80.10	38 19	14.62	13	3.18	34 59	14.17	34	78.43	28 11	14.66	31	92.83	21 07	14.95	33	8.33	26 14
11.36	41	80.21	39 56	13.60	22	5.40	31 11	14.28	34	78.58	24 40	14.14	31	92.84	28 52	14.32	34	8.52	21 40
14.95	42	80.44	36 32	14.32	23	5.83	38 15	14.95	36	78.94	27 00	14.60	32	92.94	21 50	14.28	36	8.92	24 24
14.10	44	81.01	32 38	13.44	24	6.10	33 46	13.73	36	79.05	23 07	14.60	34	93.46	29 17	14.64	38	9.50	25 09
11.44	46	81.52	30 04	10.71	26	6.61	34 58	13.98	36	79.05	28 07	14.68	34	93.52	28 21	14.64	38	9.62	22 00
14.68	48	81.91	39 39	13.98	28	6.88	33 50	13.08	36	79.10	28 44	14.95	34	93.59	28 32	14.41	40	10.08	24 43
14.36	51	82.68	32 14	14.95	29	7.32	36 57	14.56	38	79.45	22 31	14.56	36	93.96	26 54	14.41	41	10.17	23 15
14.95	52	83.00	36 11	13.92	30	7.54	31 26	11.31	38	79.50	28 52	8.59*	36	94.02	21 44	13.44	43	10.69	21 57
13.98	54	83.60	36 51	13.68	32	8.00	35 32	14.86	39	79.65	20 55	14.68	36	94.03	26 37	14.95	44	10.89	21 27
14.70	58	84.48	30 04	14.68	33	8.26	39 16	13.60	40	79.92	27 40	14.68	37	94.14	24 13	14.95	45	11.17	27 30
14.68	58	84.57	38 24	13.73	34	8.45	38 32	14.10	43	80.67	21 56	14.32	37	94.26	25 05	14.95	46	11.39	20 36
14.46	59	84.80	37 27	14.62	34	8.47	31 49	14.41	43	80.77	22 06	14.64	37	94.27	26 30	13.87	46	11.54	22 29
14.36	49 0	85.09	31 21	14.62	38	9.39	36 46	14.64	44	80.92	24 32	14.66	37	94.36	24 32	14.32	49	12.18	25 04
13.28	1	85.21	37 18	14.95	38	9.59	30 30	13.92	44	81.01	29 41	14.62	38	94.44	25 31	14.68	49	12.26	26 07
13.44	3	85.74	37 43	14.68	39	9.73	38 54	11.82	48	81.88	27 19	14.95	40	94.94	26 26	14.95	50	12.52	28 29
14.95	4	85.87	37 12	13.87	39	9.85	39 43	14.95	49	82.23	29 15	14.86	42	95.40	27 34	14.95	52	12.91	23 18
14.66	6	86.48	38 05	13.71	41	10.21	30 33	14.21	51	82.72	22 30	14.10	42	95.52	24 16	14.36	53	13.14	29 22
14.45	6	86.54	34 19	14.10	42	10.56	36 18	13.98	51	82.74	29 51	14.05	44	95.96	29 36	12.88	54	13.48	25 24
13.28	6	86.60	32 13	14.95	44	10.95	38 29	14.95	52	83.06	25 52	12.66	45	96.17	28 33	12.88	54	13.52	20 05
14.32	10	87.54	30 01	14.95	45	11.13	34 09	13.47	55	83.87	20 13	13.44	46	96.47	22 04	10.23	56	13.89	29 34
10.57	13	88.19	35 56	13.44	48	12.04	38 49	14.68	56	83.92	25 22	9.14	46	96.54	29 41	14.95	56	13.96	26 28
12.66	14	88.39	36 16	14.45	49	12.26	33 41	14.36	57	84.32	26 11	13.28	48	97.05	26 07	14.86	56	13.97	25 44
14.62	14	88.56	37 35	14.54	50	12.41	32 16	14.68	58	84.39	21 27	13.44	48	97.10	26 42	11.22	56	14.06	22 58
13.68	17	89.13	35 06	14.52	50	12.45	36 24	12.45	58	84.44	22 57	14.05	51	97.76	20 07	11.76	57	14.25	26 24
14.64	22	90.41	36 27	14.54	50	12.46	33 23	14.62	59	84.70	23 07	14.95	53	98.37	21 20	14.52	57	14.26	23 44
14.95	24	91.01	39 03	10.37	51	12.72	37 27	13.73	59	84.73	28 15	14.37	56	98.94	25 15	14.58	57	14.36	22 30
14.95	29	92.36	34 34	14.58	51	12.84	32 45	13.44	59	84.86	20 05	14.66	56	99.03	29 39	14.68	58	14.44	20 22
11.97	31	92.78	38 48	14.67	52	12.88	30 24	14.95	49 5	86.13	25 32	13.54	57	99.22	29 29	14.95	58	14.61	27 09
14.95	31	92.83	30 35	12.23	52	13.05	36 47	12.45	5	86.24	27 40	12.66	50 0	99.94	24 19	14.58	59	14.75	29 01
14.95	33	93.18	33 40	14.10	52	13.12	33 52	13.44	6	86.38	29 02	12.79	5	1.14	29 28	14.62	59	14.84	22 33
12.88	33	93.19	33 18	14.50	53	13.20	31 39	13.28	7	86.69	24 14	13.28	7	1.77	28 34	14.95	48 23	75.68	11 29
12.88	39	94.79	36 57	14.95	54	13.44	31 05	13.08	10	87.37	25 16	14.78	15	3.72	20 03	13.60	24	75.92	11 27
14.50	39	94.87	31 16	14.95	54	13.58	30 16	13.73	11	87.64	21 24	14.21	17	4.14	29 53	14.95	25	76.33	18 24
13.44	42	95.59	39 51	14.86	55	13.76	33 35	12.88	13	88.33	24 27	14.56	17	4.16	23 45	14.95	31	77.84	13 09
13.60	43	95.70	39 56	11.72	57	14.27	34 27	13.60	15	88.86	28 36	14.32	17	4.32	24 53	14.14	32	77.93	13 42
13.98	45	96.18	32 03	14.50	57	14.27	38 04	14.67	16	88.88	29 26	14.64	17	4.33	24 04	12.45	32	78.00	16 13

25 prec. + 77 sec. — 3′ 51″.

251—290				291—330				331—370				371—410				411—447			
Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.17	48 37	79.30	12 54	14.41	49 34	93.38	16 03	13.44	50 41	10.37	12 11	13.87	49 21	90.34	7 14	14.86	50 10	2.56	1 45
14.70	38	79.38	16 43	14.54	34	93.57	18 11	11.76	44	10.91	19 30	13.87	22	90.53	8 11	14.54	12	2.90	7 04
14.52	40	79.92	10 53	14.10	35	93.70	14 04	14.36	46	11.50	19 30	13.60	23	90.69	2 11	12.88	15	3.71	6 23
14.21	41	80.16	18 54	12.23	37	94.36	12 05	14.95	48	12.09	12 46	13.98	23	90.69	6 42	13.44	17	4.27	1 43
14.14	43	80.66	17 34	14.58	40	94.96	18 42	14.95	49	12.20	12 08	12.02	23	90.76	8 45	14.64	18	4.38	7 46
13.68	46	81.39	17 13	9.28*	40	95.08	13 54	14.62	49	12.29	12 57	14.68	25	91.35	8 20	11.51	18	4.49	9 57
14.62	47	81.74	15 22	13.60	40	95.08	19 56	14.95	53	13.32	14 47	14.95	26	91.41	7 22	13.08	19	4.74	8 43
11.31	47	81.80	17 35	14.95	45	96.12	17 01	14.95	54	13.46	15 45	12.88	27	91.76	9 57	9.22	20	5.02	1 44
14.86	47	81.87	10 32	13.08	47	96.74	14 11	14.54	55	13.65	17 52	13.98	28	91.90	5 43	11.73	21	5.14	0 39
14.62	48	81.91	18 09	14.95	50	97.54	10 42	14.64	56	13.91	19 20	14.70	28	91.90	7 11	14.95	21	5.23	0 26
14.95	48	81.92	12 22	14.95	50	97.55	18 25	13.28	59	14.79	13 15	13.87	28	92.07	2 51	14.86	21	5.29	0 56
14.70	49	82.37	19 59	14.64	51	97.75	18 09	14.95	48 25	76.22	0 56	14.95	29	92.13	6 05	14.95	22	5.38	9 00
13.44	50	82.44	14 35	13.87	56	99.11	18 54	12.88	25	76.23	5 28	14.95	31	92.87	1 58	14.95	24	6.02	4 19
13.60	50	82.60	17 29	14.95	58	99.51	18 38	14.95	25	76.32	1 16	14.86	32	92.90	9 18	13.44	24	6.05	3 21
14.95	53	83.33	19 26	13.73	50 1	0.26	15 49	12.88	27	76.80	7 11	13.73	35	93.68	7 01	14.68	25	6.15	6 11
11.11	54	83.43	10 47	13.73	2	0.40	14 21	14.78	32	78.06	9 36	12.66	35	93.75	8 05	14.86	26	6.61	7 57
12.45	57	84.35	14 06	13.98	3	0.69	10 10	14.86	33	78.15	5 15	14.86	36	93.90	5 38	14.70	27	6.71	5 32
14.70	58	84.44	18 41	14.95	4	0.95	17 39	12.88	33	78.28	3 43	14.50	37	94.37	1 50	14.86	28	6.93	3 55
14.50	58	84.56	16 09	12.45	4	0.96	13 29	14.95	34	78.47	7 58	14.95	38	94.50	8 52	14.52	35	8.76	5 29
14.95	59	84.68	18 21	14.95	5	1.18	16 45	14.54	35	78.80	8 04	12.88	39	94.64	7 01	14.95	36	8.89	7 14
14.86	49 7	86.80	18 24	12.45	5	1.24	14 20	14.41	37	79.21	0 13	14.41	39	94.70	9 59	12.66	37	9.34	7 16
12.88	9	87.27	14 03	13.28	6	1.45	17 43	14.68	38	79.61	9 21	12.45	40	95.04	1 17	13.98	39	9.71	4 38
14.86	13	88.31	18 44	13.73	9	2.17	17 12	14.95	40	80.03	5 32	14.51	42	95.56	9 30	14.95	39	9.79	5 33
14.41	13	88.37	10 54	11.79:	10	2.59	11 19	14.95	41	80.28	6 03	14.21	42	95.60	3 14	13.87	40	9.93	7 10
14.14	15	88.67	18 34	14.46	15	3.85	11 50	14.70	41	80.36	2 59	14.95	46	96.54	1 19	14.45	40	10.12	0 13
14.64	15	88.69	12 43	14.95	17	4.31	16 32	14.46	43	80.71	1 09	14.60	49	97.20	6 35	14.95	46	11.46	7 27
14.95	17	89.14	17 50	14.95	18	4.43	16 13	14.95	47	81.74	3 03	13.28	50	97.57	3 57	14.21	47	11.71	8 47
14.86	17	89.31	13 15	14.86	19	4.71	15 10	9.79	51	82.78	6 32	14.95	51	97.83	8 48	8.99	47	11.84	1 00
14.68	19	89.78	18 38	14.95	21	5.32	18 48	14.68	52	82.92	5 58	13.60	52	98.06	4 41	14.68	49	12.28	0 59
14.32	19	89.84	11 34	12.96	25	6.30	10 39	13.60	53	83.22	6 50	14.95	52	98.11	8 35	14.56	50	12.49	9 06
12.88	21	90.31	11 28	13.44	28	6.88	11 12	14.21	54	83.39	2 40	14.46	53	98.30	2 50	14.54	52	12.87	8 23
14.32	22	90.44	13 09	14.95	29	7.14	15 11	11.29	55	83.73	7 59	14.70	56	98.97	5 39	14.95	52	13.10	4 05
14.95	23	90.66	16 55	14.68	29	7.36	19 05	14.68	57	84.13	9 32	14.64	57	99.25	0 30	14.64	53	13.31	1 24
13.08	23	90.83	12 37	14.57	30	7.46	10 02	14.56	58	84.46	7 40	13.60	50 2	0.46	5 39	14.95	56	13.95	8 41
14.14	29	92.21	10 32	13.98	30	7.54	14 56	14.86	49 0	85.00	2 59	12.45	3	0.64	7 20	14.66	58	14.57	4 27
14.95	30	92.52	14 30	14.95	33	8.25	10 26	10.78	2	85.50	9 07	14.86	4	0.95	0 40	14.41	59	14.76	0 14
14.28	31	92.77	18 23	13.92	35	8.74	19 28	11.70	5	86.34	9 58	14.37	6	1.55	8 14	9.19	51 0	14.97	4 50
11.86	31	92.78	12 31	12.88	36	9.00	17 17	14.95	9	87.35	3 11	9.72	6	1.60	9 46				
14.17	32	93.03	11 05	14.95	41	10.17	18 34	13.60	18	89.49	5 02	14.95	7	1.71	0 45				
14.95	33	93.17	18 37	14.95	41	10.19	19 32	13.98	19	89.62	6 19	13.44	9	2.12	9 11				

25 prec. + 77 sec. — 3′ 51″

Area 100. Centre for 1900: $8^h\ 49^m$ — 0° 10′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.70	46 55	68.80	39 04	10.63	48 34	93.60	30 01	15.39	49 57	14.19	31 22	14.78	47 54	83.45	20 29	14.03	49 19	4.81	27 15
14.56	57	69.18	35 02	16.05	37	94.30	34 16	13.40	59	14.70	32 55	13.02	55	83.83	29 55	16.05	25	6.36	20 02
15.39	57	69.20	35 24	13.60	38	94.61	34 00	11.05	50 0	15.00	34 13	12.06	56	83.95	21 36	16.05	27	6.70	21 13
15.28	57	69.30	31 20	15.86	42	95.40	30 06	12.80	4	15.89	30 20	14.78	57	84.13	20 14	13.28	27	6.82	26 17
14.30	59	69.71	30 42	13.92	42	95.48	36 26	15.39	6	16.50	31 10	14.56	58	84.43	26 32	13.95	28	6.97	20 54
13.18	47 1	70.19	37 56	12.70	44	96.05	35 18	12.38	8	16.92	37 58	13.18	48 0	84.96	26 31	16.05	29	7.16	23 32
15.39	5	71.27	31 50	13.95	44	96.08	38 12	12.54	10	17.61	30 03	12.22	1	85.33	22 42	12.22	32	8.03	27 35
15.39	5	71.30	31 29	14.87	47	96.70	32 49	16.05	13	18.20	30 16	15.17	2	85.62	20 06	14.64	34	8.42	29 13
15.11	5	71.30	36 01	15.22	48	97.00	31 38	10.21	18	19.47	30 05	14.97	3	85.76	26 04	15.11	34	8.42	20 33
14.87	7	71.81	35 50	14.64	51	97.83	39 03	13.28	18	19.59	36 02	13.50	4	86.07	26 42	15.71	41	10.18	23 19
14.73	9	72.20	37 25	12.38	53	98.24	32 41	15.86	25	21.17	39 49	16.05	8	86.92	23 08	13.02	42	10.52	21 51
12.06	10	72.50	36 15	13.18	55	98.80	33 55	16.05	30	22.46	30 04	10.11	8	87.01	20 50	11.48	42	10.53	24 15
16.05	11	72.63	39 16	16.05	57	99.20	35 43	14.78	30	22.52	32 53	15.52	8	87.05	24 14	15.01	42	10.61	29 16
16.05	13	73.36	33 04	12.86	49 0	0.05	38 23	12.86	33	23.20	32 20	12.22	9	87.24	26 59	15.28	56	14.12	22 34
13.18	14	73.51	35 07	11.12	4	1.02	39 36	11.24	35	23.66	32 29	14.35	9	87.25	23 20	16.05	50 8	16.89	28 13
16.05	15	73.75	30 55	15.01	5	1.13	33 22	16.05	35	23.68	30 52	15.11	10	87.50	27 25	13.18	10	17.39	26 25
16.05	16	73.97	33 22	11.81	5	1.17	38 04	13.84	38	24.39	36 22	14.30	14	88.52	20 07	15.28	14	18.39	26 45
14.64	16	73.99	36 31	14.64	5	1.36	30 08	16.05	43	25.85	33 44	15.86?	15	88.87	28 04	14.78	16	19.07	22 34
12.38	22	75.61	37 26	14.35	6	1.47	33 34	13.40	44	25.90	38 42	13.84	17	89.24	29 09	16.05	20	20.08	24 18
13.60	24	76.08	33 31	14.30	6	1.57	37 30	11.67	50	27.54	33 18	14.43	19	89.83	26 37	16.05	21	20.27	22 22
16.05	25	76.29	34 00	15.28	6	1.57	34 02	15.71	46 55	68.64	26 26	13.02	25	91.23	26 30	10.91	21	20.37	20 39
14.97	25	76.32	37 21	15.86	7	1.86	37 55	13.34	58	69.45	25 29	15.71	31	92.77	26 52	14.87	31	22.75	26 23
12.54	29	77.37	32 03	14.14	8	1.97	31 40	15.22	58	69.55	23 37	16.05	32	92.94	20 18	14.97	35	23.73	20 35
16.05	30	77.50	38 49	13.18	9	2.20	33 08	14.56	47 1	70.17	22 55	13.40	34	93.49	29 00	11.81	37	24.33	27 10
12.86	32	77.96	37 58	12.86	9	2.31	37 25	15.28	1	70.26	20 52	13.84	35	93.74	24 47	13.34	38	24.54	23 24
14.97	34	78.40	33 49	12.38	10	2.47	38 14	15.11	3	70.77	21 25	15.86	35	93.75	20 08	16.05	39	24.66	20 50
10.82	34	78.56	38 12	14.43	12	2.90	38 41	14.03	7	71.65	28 28	15.01	39	94.66	20 53	16.05	45	26.21	23 15
12.38	35	78.76	35 21	16.05	13	3.18	33 23	14.30	7	71.79	22 39	14.78	40	94.88	26 46	15.01	45	26.35	20 06
14.78	39	79.81	38 06	14.51	15	3.79	31 15	16.05	9	72.32	23 01	13.57	40	94.99	26 11	16.05	47	26.83	24 41
14.56	39	79.83	34 36	15.71	15	3.84	31 35	11.68	11	72.68	27 07	16.05	40	95.11	25 29	16.05	50	27.55	23 48
16.05	41	80.26	34 16	13.02	19	4.75	33 30	15.11	11	72.82	25 41	16.05	41	95.18	20 09	12.70	46 56	68.99	17 49
14.56	43	80.76	34 41	15.71	21	5.25	33 12	14.35	12	73.10	21 36	16.05	44	95.98	25 23	15.22	47 2	70.59	12 59
15.39	45	81.23	34 26	14.73	21	5.33	31 29	12.76	14	73.42	28 39	15.52	45	96.28	20 26	12.38	4	70.98	19 01
13.18	45	81.25	35 58	14.73	22	5.54	33 04	10.32	17	74.35	26 34	15.39	46	96.53	22 16	14.22	6	71.61	15 51
12.06	47	81.77	34 16	16.05	23	5.63	35 59	13.28	18	74.58	21 54	15.58	47	96.69	20 53	13.84	10	72.44	19 38
14.56	51	82.74	39 40	12.70	25	6.14	31 10	13.57	18	74.58	22 27	16.05	47	96.78	26 22	11.27	13	73.18	14 29
16.05	56	84.00	34 40	13.67	28	7.04	35 53	15.86	19	74.72	29 11	15.58	48	96.89	28 02	15.22	13	73.28	17 06
14.11	48 2	85.39	37 13	16.05	30	7.44	34 38	13.24	19	74.75	24 42	16.05	50	97.41	26 12	15.11	21	75.15	15 08
10.37	4	85.95	30 02	16.05	33	8.17	39 22	13.34	19	74.77	25 46	14.35	51	97.75	21 47	15.52	22	75.61	11 07
11.67	5	86.14	36 35	12.86	39	9.72	31 10	13.40	20	75.07	24 40	14.97	54	98.47	24 23	14.73	24	75.96	18 46
14.87	7	86.83	35 38	13.84	43	10.68	31 42	15.86	25	76.36	28 57	13.67	58	99.47	23 21	9.79	28	76.90	17 14
15.52	13	88.21	30 42	16.05	44	10.90	34 14	13.84	28	76.96	24 40	13.15	49 6	1.53	20 22	14.18	28	77.10	19 45
15.11	18	89.48	35 44	15.28	45	11.16	32 59	13.50	28	77.11	26 35	14.35	8	2.04	26 25	13.44	29	77.26	17 34
16.05	19	89.83	37 19	15.28	46	11.39	36 05	15.86	29	77.28	24 13	15.58	9	2.26	20 34	16.05	31	77.66	13 36
13.57	19	89.85	39 19	9.17	47	11.82	35 18	16.05	41	80.27	24 39	15.52	10	2.43	22 24	16.05	35	78.84	19 58
12.86	26	91.47	35 45	13.60	50	12.55	33 41	15.52	42	80.59	22 38	15.52	10	2.49	22 06	14.64	36	78.95	10 43
12.22	27	91.67	37 10	11.09	51	12.72	36 06	13.67	46	81.45	29 55	13.92	14	3.45	20 04	15.22	39	79.68	17 48
15.71	27	91.78	39 08	14.51	54	13.38	38 20	16.05	47	81.81	25 07	13.84	17	4.33	21 46	16.05	40	79.94	19 05
14.87	31	92.70	34 52	16.05	54	13.52	31 14	14.51	48	82.04	26 33	12.22	17	4.34	25 10	15.86	41	80.23	18 32
13.02	32	93.01	34 12	15.86	55	13.72	38 30	12.96	53	83.14	24 52	16.05	18	4.45	27 12	13.44	42	80.46	11 27

25 prec. + 77 sec. — 5′ 36″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′
	m s	′	′ − ″		m s	′	′ − ″		m s	′	′ − ″		m s	′	′ ″		m s	′	′ + ″
12.86	47 44	80.94	16 09	12.86	49 0	0.10	13 45	15.32	46 59	69.63	8 43	11.39	49 6	1.45	−8 44	16.05	47 2	70.50	0 44
15.39	45	81.20	12 32	16.05	1	0.35	18 27	14.78	47 4	70.95	1 34	14.56	10	2.48	4 11	14.51	2	70.52	2 29
14.51	50	82.40	13 46	15.71	2	0.47	14 58	11.70	4	71.05	1 47	14.87	12	3.02	5 17	16.05	3	70.72	2 08
15.86	51	82.64	16 32	15.39	3	0.64	10 25	15.45	9	72.28	0 01	12.38	14	3.47	5 17	14.64	4	71.09	6 09
13.34	51	82.65	14 50	16.05	3	0.64	18 26	13.67	15	73.64	1 25	14.35	17	4.24	4 27	16.05	7	71.77	6 37
14.51	52	83.04	12 57	15.39	3	0.66	13 29	13.77	16	74.02	7 15	16.05	18	4.46	8 02	14.78	7	71.77	1 08
16.05	52	83.08	17 56	16.05	6	1.38	17 31	10.32	24	75.88	5 14	13.18	19	4.81	8 19	16.05	8	71.96	4 40
15.28	54	83.45	10 49	11.91	7	1.66	16 19	15.11	25	76.16	5 54	14.35	22	5.39	6 58	13.77	8	71.97	9 23
13.18	48 0	85.03	12 16	14.64	7	1.80	19 36	13.40	25	76.26	1 19	15.22	24	5.98	3 57	13.77	10	72.55	7 46
14.43	1	85.13	10 58	16.05	12	2.98	15 02	15.71	25	76.36	6 24	14.64	29	7.22	6 46	12.38	11	72.76	9 19
14.11	1	85.26	12 39	13.57	14	3.56	11 27	11.22	26	76.39	1 06	16.05	32	8.03	7 03	15.22	12	73.10	4 58
14.56	3	85.63	17 48	14.30	17	4.15	19 02	16.05	26	76.44	3 52	13.18	33	8.32	4 52	13.18	13	73.28	9 36
14.97	4	85.93	18 31	13.44	17	4.35	12 06	15.11	26	76.45	8 50	11.41	35	8.72	7 06	12.70	16	73.97	3 58
16.05	6	86.54	17 45	14.22	18	4.55	12 59	15.52	28	76.88	4 21	16.05	36	9.06	5 40	14.11	17	74.22	3 23
14.64	8	87.06	13 08	16.05	21	5.33	14 11	14.14	37	79.19	3 14	12.54	40	10.11	8 30	14.22	17	74.27	0 14
15.52	9	87.13	18 12	14.73	23	5.65	11 37	13.40	44	80.96	0 39	14.56	46	11.49	8 59	14.87	18	74.48	7 27
12.70	11	87.71	18 52	14.30	28	6.99	19 17	14.35	45	81.25	5 23	14.87	47	11.66	2 22	13.67	19	74.64	2 16
14.97	11	87.78	14 36	16.05	29	7.19	11 20	14.22	46	81.42	0 42	14.97	48	12.09	6 23	15.22	20	75.08	9 06
12.22	12	88.01	18 31	13.84	33	8.33	17 29	13.02	48	82.03	4 00	15.17	48	12.10	9 52	15.71	23	75.84	8 37
16.05	15	88.71	15 10	16.05	34	8.56	16 03	11.70	49	82.13	3 35	15.52	49	12.21	1 32	14.78	27	76.66	6 21
15.11	15	88.80	14 07	14.30	36	8.92	13 39	15.11	52	83.03	5 36	16.05	53	13.30	4 13	14.43	28	76.96	3 37
12.06	20	90.11	16 38	8.91*	37	9.22	19 53	14.56	52	83.06	5 00	16.05	54	13.44	9 19	14.03	28	77.01	1 02
14.43	22	90.40	11 23	15.71	45	11.16	12 02	12.22	54	83.53	1 06	14.87	54	13.54	2 05	14.51	28	77.05	3 07
13.28	23	90.70	11 19	15.86?	48	12.11	12 43	15.52	48 0	84.94	5 58	16.05	54	13.59	0 45	14.64	29	77.16	5 18
14.73	23	90.70	13 09	16.05	50	12.40	15 14	13.02	0	85.02	0 10	14.56	55	13.63	1 24	13.95	31	77.86	0 59
14.78	25	91.20	15 47	12.54	51	12.70	18 38	15.39	5	86.18	7 55	16.05	57	14.18	3 49	14.78	35	78.65	6 18
13.92	25	91.37	12 50	14.35	53	13.35	14 57	16.05	6	86.55	3 06	15.86	57	14.21	5 23	15.11	36	79.12	6 04
16.05	28	92.09	13 28	14.35	54	13.48	16 07	15.52?	9	87.34	7 01	13.50	57	14.25	4 18	16.05	37	79.24	5 08
14.14	28	92.10	19 59	11.81	57	14.25	17 54	13.57	10	87.40	6 58	14.64	59	14.71	2 32	15.11	38	79.51	3 34
11.64	29	92.21	14 00	16.05	50 5	16.20	15 58	15.22	10	87.48	2 30	15.28	50 7	16.87	2 37	14.35	41	80.24	7 04
14.78	29	92.32	18 25	14.14	7	16.74	13 46	15.58	10	87.57	5 16	15.71	8	16.95	5 42	16.05	53	83.14	9 24
14.97	31	92.68	11 46	16.05	9	17.28	10 25	13.50	11	87.79	5 28	12.38	9	17.34	8 43	14.97	54	83.43	3 53
14.07	32	92.99	10 04	14.03	9	17.30	12 29	14.14	13	88.34	0 35	15.01	14	18.56	7 44	14.78	57	84.22	2 29
16.05	33	93.30	14 58	13.95	13	18.16	12 12	15.45	14	88.60	9 52	14.64	15	18.68	5 50	16.05?	57	84.31	2 42
13.74	38	94.62	11 37	15.86	16	19.08	13 38	12.70	16	88.91	3 32	13.18	15	18.74	8 51	16.05	48 8	86.95	3 58
9.5[1]	40	94.89	12 09	16.05	18	19.43	18 06	15.01	20	89.99	6 12	14.30	20	20.03	0 17	16.05	13	88.15	4 30
9.4[1]	40	94.93	12 03	15.58	22	20.39	16 49	15.86	21	90.27	1 53	13.50	24	21.05	5 08	14.78	15	88.86	8 23
16.05	42	95.46	14 47	12.80	22	20.58	19 38	11.78	22	90.58	6 24	14.78	25	21.30	0 27	14.30	16	88.89	2 22
9.52	42	95.57	10 06	16.05	22	20.60	13 28	14.87	32	92.88	4 22	14.97	31	22.74	8 37	16.05	17	89.20	4 33
14.73	43	95.64	17 42	12.54	24	20.97	12 40	14.51	33	93.27	4 40	13.57	31	22.75	8 25	14.30	22	90.59	6 55
14.11	43	95.65	10 51	14.78	25	21.30	17 21	14.73	42	95.44	6 15	16.05	34	23.45	3 39	14.39	24	90.96	0 18
16.05	46	96.60	13 09	16.05	27	21.78	14 00	14.11	45	96.24	7 22	16.05	41	25.22	2 36	14.64	25	91.29	3 33
14.97	47	96.74	10 52	13.44	27	21.87	17 16	16.05	45	96.34	6 31	14.87	43	25.65	0 29	14.11	26	91.59	3 21
15.28	47	96.79	18 06	14.56	28	22.07	17 41	11.74	48	96.96	9 38	16.05	44	25.95	5 31	16.05	28	92.04	6 05
13.64	49	97.16	19 30	14.39	42	25.45	19 45	14.78	49	97.24	0 58	14.56	49	27.34	−5 40	13.24	30	92.59	6 40
15.86	52	98.07	19 25	16.05	46	26.54	15 32	11.38	50	97.54	2 32	14.73	46 53	68.27	+7 09	13.99	31	92.79	0 09
9.06*	52	98.08	14 00	13.34	46 54	68.51	8 00	15.01	52	97.98	0 28	15.58	56	69.00	9 15	13.67	34	93.59	4 16
11.81	54	98.58	14 51	16.05	55	68.81	2 44	11.55	53	98.26	0 55	14.14	57	69.25	7 36	14.64	35	93.78	6 43
15.71	57	99.26	12 47	15.22	58	69.38	5 10	13.24	58	99.45	4 31	15.39	59	69.69	6 20	14.51	37	94.18	8 48
15.22	49 0	0.04	14 15	14.78	58	69.57	2 52	14.07	49 3	0.75	0 13	14.78	59	69.78	+8 00	15.52	38	94.45	0 09

[1] Measured separately in short exposure.

25 prec. + 77 sec. — 5′ 36″.

Area 100.

501—540				541—580				581—620				621—660				661—699			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.54	48 45	96.23	5 45	13.02	50 7	16.63	9 00	15.01	47 16	74.06	10 28	12.06	48 15	88.69	18 56	14.78	49 33	8.23	16 12
13.02	48	96.96	4 56	10.97	7	16.74	5 40	14.97	16	74.08	14 23	14.64	16	89.06	17 58	13.60	34	8.48	19 24
15.58	48	97.06	3 47	11.97	11	17.65	0 24	11.05	17	74.16	17 40	12.54	20	90.09	15 54	14.73	34	8.60	14 42
9.85	50	97.53	7 57	16.05	13	18.13	4 36	15.22	19	74.78	11 42	16.05	24	91.08	17 00	14.73	36	8.89	11 42
11.40	51	97.67	8 09	15.86	13	18.17	2 59	14.87	20	75.08	17 13	16.05	29	92.28	16 21	15.86	36	8.98	19 08
13.50	51	97.77	7 40	14.22	14	18.57	1 09	15.01	23	75.66	17 59	16.05	31	92.76	16 46	11.65	47	11.69	17 25
14.78	51	97.84	6 28	16.05	19	19.67	6 15	15.58	23	75.75	14 29	16.05	42	95.39	18 39	14.73	47	11.77	13 53
13.64	53	98.36	9 46	14.51	19	19.73	6 38	14.51	25	76.20	15 30	15.86	42	95.62	13 34	16.05	49	12.17	13 15
15.86	56	98.90	3 14	15.28	22	20.43	7 25	15.01	27	76.65	16 44	14.14	44	95.89	18 10	10.22	49	12.37	10 03
14.97	57	99.26	9 12	10.59	26	21.56	2 37	15.39	28	76.89	17 59	16.05	44	95.92	13 55	15.01	51	12.65	12 09
14.51	58	99.43	4 58	14.30	28	21.96	7 00	11.11	28	76.89	17 06	13.92	44	95.97	19 58	15.86	51	12.80	16 52
13.84	49 3	0.63	5 59	16.05	28	22.10	1 15	15.28	30	77.54	17 48	16.05	45	96.25	12 34	15.39	56	14.05	16 22
15.71	7	1.85	6 18	16.05	29	22.16	0 15	16.05	32	78.10	12 35	16.05	45	96.33	13 29	13.02	57	14.28	19 07
14.56	9	2.17	6 07	14.51	30	22.46	2 33	15.28	34	78.43	13 38	15.71	46	96.40	17 08	14.64	50 0	14.97	14 49
15.01	12	3.05	6 39	15.86	30	22.46	7 35	15.01	35	78.84	17 48	14.78	48	96.99	13 33	16.05	9	17.14	18 41
16.05	15	3.85	9 23	16.05	34	23.55	9 46	15.52	41	80.16	16 32	12.70	50	97.58	18 49	12.54	10	17.47	13 41
16.05	17	4.34	3 24	14.87	35	23.72	6 37	14.73	41	80.30	18 50	15.52	51	97.74	11 50	15.52	11	17.72	14 10
16.05	19	4.82	2 39	13.57	37	24.35	4 50	15.39	43	80.65	13 30	15.22	52	97.95	14 22	11.32	12	17.90	13 00
13.74	21	5.23	6 58	15.28	39	24.73	2 19	14.30	43	80.72	14 26	15.11	52	98.06	12 49	16.05	12	17.96	17 13
13.44	22	5.43	4 10	14.82	44	26.03	0 02	14.22	43	80.83	18 22	15.22	53	98.21	10 31	13.34	13	18.25	18 26
16.05	22	5.61	6 37	15.22	44	26.03	8 20	15.11	47	81.74	10 07	14.97	54	98.55	16 42	16.05	14	18.52	16 46
15.86	25	6.27	7 46	14.97	46	26.43	1 18	15.01	48	82.03	18 04	14.64	55	98.65	13 43	16.05	16	18.97	11 26
12.06	28	7.05	8 48	15.39	47	26.83	2 32	15.52	48	82.11	19 44	15.86	56	98.93	16 51	16.05	16	19.03	18 57
15.06	29	7.23	5 11	14.14	49	27.26	0 44	14.56	49	82.26	18 28	15.71	57	99.15	14 38	14.73	17	19.17	19 24
15.28	36	9.09	0 56	14.14	50	27.53	5 18	12.38	50	82.44	15 07	16.05	59	99.74	11 05	14.22	21	20.32	15 02
12.70	37	9.21	8 31	14.64	46 52	68.02	14 19	8.34*	50	82.55	13 07	13.12	49 0	0.04	17 26	15.52	24	20.95	10 22
13.44	37	9.30	6 34	14.56	53	68.18	17 42	10.20	50	82.58	10 14	15.71	10	2.52	10 13	14.73	28	21.95	19 59
13.92	42	10.56	8 22	14.64	53	68.22	15 37	15.58	51	82.87	17 31	15.71	11	2.63	15 57	15.01?	29	22.25	19 47
14.22	44	10.97	2 37	10.13	53	68.34	14 50	16.05	53	83.21	18 55	15.22	13	3.13	17 24	14.78	32	22.90	17 42
16.05	44	11.10	2 48	14.30	54	68.61	15 30	13.40	53	83.23	10 27	14.30	14	3.50	15 11	14.56	33	23.14	11 27
10.89	46	11.52	9 56	15.58	58	69.55	18 23	13.34	54	83.39	10 52	13.92	17	4.23	12 53	14.73	34	23.56	12 23
16.05	48	11.88	2 46	14.64	47 1	70.30	12 21	14.56	56	84.04	16 42	14.78	19	4.87	14 47	14.64	36	24.05	15 52
12.80	49	12.30	0 22	14.43	2	70.57	12 15	15.86	56	84.11	10 31	12.96	20	5.10	10 40	12.54	39	24.76	11 56
15.86	51	12.62	0 00	15.39	5	71.23	15 22	13.02	57	84.25	15 55	12.96	21	5.15	15 08	16.05	40	25.00	19 34
14.43	52	13.07	0 41	13.40	7	71.67	19 08	15.11	57	84.28	15 13	13.88	21	5.21	10 12	15.86	43	25.63	12 37
16.05	55	13.69	2 29	13.95	7	71.76	10 43	13.50	57	84.31	13 23	15.52	24	5.94	18 06	14.43	44	26.03	13 02
14.35	56	14.10	9 44	16.05	8	71.95	18 05	15.22	48 2	85.47	17 12	15.22?	24	5.96	18 38	14.64	45	26.25	19 10
13.84	50 0	15.02	4 05	14.22	11	72.69	13 44	14.97	3	85.71	16 26	15.01	28	7.09	18 00	16.05	45	26.30	18 55
14.14	1	15.31	9 36	15.86	12	72.88	19 40	16.05	10	87.51	17 44	16.05	29	7.30	13 55	15.71	50	27.62	10 34
16.05	6	16.58	5 01	16.05	12	72.97	15 42	14.64	13	88.13	17 03	10.67	31	7.82	13 19				

25 prec. + 77 sec. — 5′ 37″.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.29	48 54	53.43	35 29	12.86	52 35	8.66	35 30	13.30	50 27	76.66	21 36	15.39	53 37	24.14	26 31	14.12	52 29	7.27	11 56
15.34	54	53.55	39 01	14.04	35	8.70	34 21	10.80	38	79.56	23 44	13.73	59	29.75	27 21	13.30	31	7.75	18 56
13.30	49 5	56.29	33 16	14.12	35	8.83	39 27	14.98	39	79.68	24 10	10.64	54 0	30.03	24 03	14.87	33	8.15	10 35
14.92	6	56.46	32 54	14.92	46	11.52	34 19	14.68	41	80.17	21 14	15.26	2	30.59	24 57	15.85	34	8.42	11 03
13.08	12	58.02	34 10	13.92	55	13.75	30 58	14.56	42	80.42	25 10	15.20	3	30.68	22 22	14.72	35	8.79	10 19
15.76	16	58.98	38 43	11.71	55	13.86	37 58	13.30	49	82.31	22 04	14.87	11	32.64	21 00	15.85	39	9.78	18 40
15.34	16	59.00	32 53	11.94	58	14.54	32 47	14.98	49	82.37	27 47	12.63	11	32.74	22 55	12.40	46	11.48	19 00
15.85	16	59.09	30 08	12.63	58	14.59	39 42	13.85	54	83.46	21 21	11.71	11	32.87	25 28	13.73	50	12.47	12 30
14.98	21	60.19	32 30	13.30	53 9	17.29	32 58	12.17	55	83.87	26 58	14.87	11	32.87	21 00	14.62	51	12.87	17 10
14.56	21	60.37	36 45	14.92	12	17.97	32 55	14.43	59	84.79	29 44	13.73	48 52	53.06	12 33	14.52	54	13.44	16 34
15.29	22	60.46	39 42	15.85	14	18.57	39 01	15.85	51 25	91.17	20 38	11.94	57	54.26	10 02	15.60	55	13.84	14 55
15.15	24	60.94	38 29	13.92	15	18.87	31 37	13.73	35	93.72	26 33	15.42	58	54.53	14 18	14.29	56	13.92	17 25
14.62	25	61.33	32 42	15.60	22	20.56	36 43	14.12	38	94.38	22 16	15.55	49 7	56.85	10 18	15.85	59	14.65	19 07
11.24	33	63.29	38 39	15.85	22	20.58	38 57	14.78	41	95.30	23 52	14.52	25	61.14	10 13	15.85	53 7	16.71	17 36
14.92	39	64.66	37 07	13.73	31	22.81	31 05	14.08	48	97.12	29 28	13.51	37	64.33	11 24	13.73	9	17.30	19 41
14.52	49	67.24	33 36	15.42	41	25.19	37 48	15.20	59	99.71	27 19	15.39	38	64.50	16 27	12.17	10	17.41	14 59
15.34?	51	67.82	36 16	15.85	42	25.60	34 53	15.85	52 0	0.09	27 49	15.85	45	66.24	15 03	13.73	13	18.17	10 54
13.51	55	68.63	38 36	14.72	43	25.70	30 22	15.85	2	0.58	27 47	14.59	46	66.38	19 21	14.39	13	18.30	18 17
14.78	55	68.76	33 59	15.42	45	26.26	32 17	14.36	3	0.87	20 41	11.94	46	66.46	18 46	15.85	16	18.98	15 45
15.29	50 4	70.93	34 58	15.39	49	27.25	34 35	15.29	5	1.36	28 12	14.68	46	66.59	10 20	15.85	18	19.57	16 03
15.07	6	71.44	30 07	15.52	53	28.37	32 55	12.40	6	1.50	22 36	15.85	50	67.49	13 02	15.12	22	20.38	10 19
14.52	16	73.79	38 37	15.39	55	28.73	35 22	15.26	7	1.66	22 01	15.52	51	67.81	14 54	15.52	33	23.26	18 09
14.84	20	75.07	39 28	14.78	57	29.32	38 19	15.85	9	2.32	21 08	14.12	51	67.82	19 50	13.73	38	24.48	11 16
8.69	29	77.20	39 03	14.22	58	29.46	33 59	14.68	13	3.32	23 08	11.94	55	68.79	12 37	14.78	41	25.18	11 47
15.50	30	77.62	30 20	15.34	54 2	30.57	36 44	15.55	15	3.69	27 00	13.51	50 4	71.06	18 20	15.85	44	26.04	17 30
12.17	35	78.68	35 45	11.00	4	30.94	33 45	14.46	16	4.00	26 05	15.20	9	72.34	11 44	13.69	51	27.74	19 48
14.87	38	79.60	37 32	14.04	10	32.40	30 29	15.85	24	5.98	28 40	15.15	12	72.99	10 47	12.63	55	28.87	11 57
14.87	39	79.64	32 25	14.46	48 54	53.44	24 20	13.51	25	6.22	21 58	15.34	13	73.26	18 56	15.60	54 3	30.69	19 07
12.86	45	81.28	31 43	14.78	58	54.43	26 29	14.84	29	7.33	26 48	15.29	31	77.86	13 40	14.46	48 56	53.95	4 09
15.85	52	82.94	30 22	13.73	59	54.72	22 12	15.39	34	8.55	23 41	14.78	40	80.12	11 30	13.73	49 15	58.75	6 09
14.12	51 4	85.98	37 51	14.46	59	54.77	20 29	15.85	37	9.21	24 17	12.63	41	80.33	12 34	14.72	16	58.98	2 25
14.19	10	87.39	34 37	15.85	49 5	56.19	21 12	13.73	37	9.23	28 43	15.20	50	82.42	15 53	14.98	16	59.05	2 59
14.56	13	88.23	36 43	15.85	9	57.28	29 40	13.08	43	10.67	21 46	15.85	58	84.61	11 17	14.68	18	59.38	0 59
15.34	14	88.55	30 35	15.85	12	57.93	27 10	13.08	43	10.68	26 24	15.26	51 5	86.25	13 59	15.42	18	59.53	4 35
15.07	37	94.37	35 26	13.92	12	58.10	23 59	15.20	47	11.80	25 53	14.46	7	86.65	15 05	14.49	23	60.68	9 30
13.51	53	98.32	36 25	14.87	13	58.37	26 08	15.47	53	13.22	27 59	15.85	8	86.88	12 51	15.12	23	60.71	4 45
13.85	55	98.73	31 55	13.73	29	62.32	28 12	14.92	53 0	14.89	23 49	15.39	9	87.21	15 22	11.94	31	62.63	9 12
15.76	57	99.35	32 35	11.29	35	63.67	23 59	15.76	1	15.14	21 20	15.85	12	87.94	16 03	15.52	31	62.77	2 59
15.15	52 0	0.04	30 55	15.55	36	64.09	20 11	15.85	1	15.33	20 29	14.19	17	89.16	17 07	14.95	40	65.11	0 19
15.76	9	2.35	35 03	14.62	39	64.71	22 12	15.12	2	15.40	20 49	15.55	17	89.18	12 52	15.85	41	65.24	0 45
13.85	16	4.02	34 51	12.63	43	65.76	22 32	14.98	3	15.81	27 23	15.85	19	89.63	15 30	15.85	42	65.54	3 05
15.23	17	4.30	30 22	14.84	49	67.17	24 17	13.73	4	16.09	21 55	15.85	37	94.29	15 19	14.78	43	65.70	8 05
10.79	23	5.64	36 08	14.72	51	67.87	29 09	12.63	12	17.91	26 05	14.22	38	94.43	14 20	13.51	46	66.47	6 50
14.52	27	6.74	30 08	12.63	54	68.44	21 38	13.64	12	18.12	29 16	14.87	45	96.16	18 22	15.39	48	67.09	6 15
15.85	28	6.98	31 43	10.46	50 0	69.96	22 48	13.73	15	18.72	27 51	15.85	50	97.40	19 15	13.73	50	67.38	2 58
14.52	30	7.39	37 06	13.73	4	71.12	25 37	13.51	16	18.96	23 36	13.30	55	98.82	13 09	15.39	51	67.83	5 09
15.55	30	7.42	33 23	14.78	6	71.45	25 32	15.01	21	20.34	27 22	15.20	52 10	2.61	16 03	15.76	56	69.10	7 53
13.92	31	7.70	32 56	15.01	8	71.98	20 03	15.85	22	20.40	28 07	15.85	14	3.55	19 22	14.84	57	69.25	0 41
12.86	32	7.95	36 26	13.73	22	75.62	24 47	15.76	25	21.24	23 56	15.85	14	3.55	16 22	14.22	50 1	70.24	1 28
15.47	34	8.39	32 42	14.22	25	76.35	26 50	14.51	33	23.33	20 02	12.86	14	3.60	13 59	15.85	4	71.08	6 54

25 prec. + 77 sec. — 7′ 4″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ − ″		m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″
14.56	50 5	71.14	5 59	15.85	53 46	26.47	−5 36	14.68	52 42	10.43	5 10	13.08	50 26	76.49	17 15	13.73	53 37	24.31	12 47
15.85	6	71.48	8 05	15.85	48	27.04	7 34	15.20	44	10.91	5 08	15.29	26	76.57	18 11	13.73	37	24.36	16 48
14.12	12	72.93	9 05	15.47	54 3	30.64	0 00	15.60	44	11.04	9 38	15.85	30	77.57	17 45	13.73	38	24.71	18 58
15.60	12	73.03	8 02	14.68	11	32.65	−2 44	15.15	51	12.72	7 28	13.85	34	78.39	10 04	15.60	49	27.26	18 55
14.75	19	74.72	9 40	15.26	48 53	53.28	+4 04	13.73	53	13.21	5 18	14.39	36	79.11	13 36	14.39	50	27.62	12 36
15.07	19	74.76	8 29	13.30	57	54.37	3 48	15.52	57	14.21	7 13	14.52	44	80.93	11 58	13.51	53	28.16	19 33
13.30	25	76.35	8 02	15.85	58	54.62	1 35	13.51	57	14.33	4 09	14.04	44	81.04	16 04	14.46	54	28.62	19 43
15.85	29	77.17	9 51	10.35	49 5	56.32	0 49	13.73	57	14.35	5 45	15.85	51 1	85.22	15 47	15.85	58	29.56	18 40
15.60	29	77.35	3 44	14.87	8	57.12	1 33	14.78	58	14.59	5 02	15.76	2	85.49	18 50	10.98	54 6	31.55	12 42
15.52	37	79.33	3 13	13.30	13	58.13	2 04	13.08	53 3	15.86	8 47	13.73	2	85.50	14 25	13.30	8	32.05	18 01
14.72	50	82.60	9 36	8.08*	28	61.89	4 03	11.03	7	16.84	6 43	15.52	3	85.84	11 51	12.17	48 54	53.43	24 43
14.39	51 1	85.28	1 21	14.12	32	62.93	8 23	15.85	8	17.05	9 06	11.20	4	86.04	15 58	14.22	56	53.95	22 52
15.85	5	86.25	0 11	15.29	34	63.55	1 58	9.43	12	17.92	3 02	13.08	7	86.71	16 32	15.34	58	54.54	27 31
12.86	5	86.36	8 19	14.46	36	64.02	3 09	15.12	16	18.89	3 52	13.73	9	87.25	11 21	15.12	49 11	57.71	28 22
13.73	9	87.23	8 04	11.71	44	66.10	0 53	13.85	20	20.05	2 06	15.60	16	89.01	11 36	15.85	17	59.27	25 11
12.63	10	87.58	7 03	11.17	45	66.21	9 49	13.30	29	22.34	7 07	15.85	38	94.56	10 08	13.30	32	63.10	25 03
15.20	11	87.67	0 24	14.12	50	67.41	6 43	12.40	32	22.93	6 52	15.85	39	94.68	14 06	14.98	44	65.97	25 45
15.39	12	87.95	3 27	15.55	54	68.47	3 15	15.85	33	23.22	8 17	11.94	52 0	0.05	18 26	13.69	49	67.37	20 31
15.85	17	89.24	7 21	13.73	50 4	71.01	6 58	13.39	37	24.20	9 44	14.52	3	0.70	17 03	13.73	51	67.80	20 39
13.51	20	90.06	7 14	14.12	26	76.46	5 54	15.34	38	24.60	5 31	15.76	3	0.80	17 24	12.86	52	68.04	24 57
14.78	20	90.08	8 24	11.80	27	76.86	9 37	12.63	39	24.66	7 26	13.08	9	2.22	11 16	13.85	54	68.47	28 43
14.12	21	90.23	9 02	12.86	33	78.35	9 35	15.85	39	24.66	3 54	11.94	9	2.23	15 39	13.73	59	69.68	24 58
15.76	26	91.55	4 09	15.39	47	81.65	7 40	12.63	49	27.17	3 49	15.29	9	2.25	17 46	15.85	50 2	70.41	23 08
13.73	33	93.23	6 07	10.31	50	82.40	5 12	11.11	50	27.54	2 01	15.55	13	3.28	12 07	15.85	10	72.48	26 12
15.47	37	94.24	0 12	15.26	51 0	84.95	6 26	13.73	50	27.61	0 48	15.85	13	3.37	12 54	15.85	12	72.93	21 52
15.60	38	94.53	6 16	15.26	1	85.30	1 19	15.60	53	28.23	9 25	12.17	19	4.86	18 38	15.52	16	74.06	26 51
15.85	46	96.56	0 18	13.85	2	85.49	2 39	15.85	54	28.40	3 26	15.60	19	4.87	11 17	13.08	27	76.76	26 41
15.85	48	96.88	1 07	14.12	8	86.95	8 19	15.85	54	28.48	5 37	15.76	20	5.10	15 21	14.56	31	77.74	25 53
13.51	53	98.23	3 59	11.94	12	87.96	2 04	12.86	56	28.97	1 14	13.81	25	6.18	10 17	15.85	37	79.19	25 47
14.92	56	99.02	6 17	13.92	14	88.43	1 09	14.92	56	29.09	2 10	14.46	28	6.93	13 58	12.63	43	80.85	21 49
11.71	58	99.43	3 06	14.98	20	89.89	7 28	14.12	54 2	30.60	6 49	14.29	30	7.52	10 43	10.04	47	81.63	20 55
10.15	58	99.62	1 29	15.85	23	90.74	4 31	15.42	5	31.22	8 53	13.73	37	9.18	15 58	15.07	50	82.47	20 59
13.51	52 3	0.68	0 53	8.88*	32	93.04	0 50	15.55	49 0	54.91	13 43	13.51	46	11.59	12 31	12.40	55	83.73	22 38
15.29	5	1.35	3 46	12.63	41	95.24	6 57	15.60	1	55.33	11 51	15.37	53	13.34	19 58	9.04	56	84.09	25 50
13.30	12	3.04	1 09	14.68	42	95.56	3 53	14.39	4	56.07	10 23	15.52	53	13.37	12 34	13.73	51 1	85.31	27 26
14.62	14	3.43	3 44	14.68	45	96.35	4 26	13.73	7	56.85	12 05	13.73	54	13.62	13 47	12.86	9	87.17	24 04
14.62	19	4.65	6 40	15.39	52 2	0.53	6 53	14.36	8	57.03	12 56	14.46	55	13.82	13 44	13.73	10	87.39	25 21
15.34	28	6.89	4 40	13.73	11	2.71	7 34	15.52	8	57.07	11 35	14.29	58	14.47	15 23	14.78	12	87.99	29 13
14.84	46	11.51	3 27	14.84	11	2.87	3 33	9.92	12	57.91	13 13	14.84	58	14.59	11 30	13.51	13	88.13	20 27
13.64	55	13.66	9 21	14.29	21	5.29	8 35	11.85	15	58.82	19 33	15.85	53 3	15.68	14 11	15.60	15	88.78	29 30
14.68	55	13.66	0 23	14.29	23	5.68	6 42	12.40	36	63.95	14 01	15.85	6	16.43	15 16	15.76	22	90.56	27 57
13.92	53 1	15.33	0 43	15.60	24	6.03	6 45	14.98	36	64.03	14 09	15.85	6	16.45	15 26	14.36	35	93.78	23 53
14.78	11	17.85	6 53	15.60	24	6.07	5 40	15.01	44	66.01	16 43	13.51	6	16.62	19 15	15.85	37	94.33	29 28
15.85	13	18.17	7 56	12.63	28	6.96	8 16	13.08	46	66.60	17 32	13.73	19	19.66	15 01	12.40	47	96.83	27 40
15.85	16	19.11	2 12	15.42	30	7.46	8 42	9.16	53	68.29	17 25	12.63	19	19.81	14 10	13.85	55	98.86	26 05
15.42	18	19.60	2 57	10.19	33	8.16	3 46	15.55	57	69.29	15 07	13.30	25	21.18	13 51	13.30	58	99.50	23 20
14.12	24	21.11	6 39	15.12	35	8.64	4 35	14.72	50 2	70.46	14 28	11.71	26	21.59	16 34	9.16	52 17	4.33	22 24
15.42	26	21.43	2 36	13.73	37	9.29	6 43	14.43	10	72.50	10 22	15.39	30	22.46	18 46	14.12	18	4.46	28 37
13.30	36	24.11	5 09	15.39	40	9.98	9 20	15.76	14	73.38	17 33	15.01	31	22.78	16 19	15.85	18	4.61	21 47
13.51	46	26.39	4 23	12.40	41	10.14	+3 52	15.39	24	75.88	17 45	13.73	37	24.16	13 39	15.85	20	4.95	29 33

25. prec. + 77 sec. — 7′ 5″.

9^h Area 101. $+ 0^\circ$

501—530				531—560				561—590				591—603			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.76	52 21	5.16	29 50	13.73	54 8	32.11	23 46	13.30	50 57	84.21	37 04	15.34	53 26	21.61	38 42
14.29	21	5.17	22 45	10.92	48 56	54.03	32 04	11.94	51 20	89.96	35 37	15.55	27	21.72	37 10
13.73	25	6.32	29 20	12.40	49 1	55.33	39 30	11.71	27	91.66	39 53	14.46	35	23.82	32 50
15.47	27	6.87	29 00	11.94	4	56.11	37 45	15.85	30	92.44	31 34	15.85	36	24.07	35 48
13.30	31	7.65	24 50	15.60	7	56.63	35 12	15.85	37	94.37	37 42	10.30	41	25.27	36 32
11.94	39	9.87	27 47	13.08	16	59.00	37 54	15.85	43	95.80	30 25	15.85	42	25.59	35 30
15.39	41	10.29	27 08	13.73	23	60.69	35 21	13.73	52 5	1.32	35 43	11.35	47	26.87	34 19
13.73	50	12.61	22 36	12.86	23	60.85	31 13	13.73	7	1.63	36 07	13.73	50	27.55	31 21
13.73	51	12.75	23 06	15.76	28	62.04	30 31	14.29	9	2.26	33 18	15.85	52	28.02	34 19
12.63	52	12.99	22 36	12.40	33	63.24	31 42	15.60	9	2.30	35 20	15.85	55	28.84	34 32
14.22	59	14.67	27 18	15.85	39	64.65	36 24	14.46	9	2.30	36 30	15.85	56	29.06	34 44
14.29	53 3	15.77	24 15	15.26	45	66.18	38 38	14.46	11	2.86	38 42	14.39	54 4	30.96	30 25
14.29	6	16.56	21 59	12.40	45	66.20	34 16	14.04	12	2.97	35 58	13.92	8	32.05	30 38
15.47	12	18.00	24 43	15.60	48	66.89	37 24	12.40	15	3.70	34 05				
15.85	14	18.41	28 35	14.92	51	67.71	38 52	11.94	19	4.79	39 31				
15.85	15	18.65	26 57	15.60	50 4	71.10	39 31	13.73	22	5.53	29 31				
13.51	18	19.44	27 40	11.94	8	71.98	34 48	13.73	27	6.83	32 37				
14.29	20	19.90	28 03	12.86	10	72.51	34 56	12.86	29	7.32	31 06				
14.19	21	20.35	22 04	13.73	16	74.00	36 34	13.08	33	8.16	39 19				
15.85	30	22.60	20 09	15.85	21	75.36	37 20	15.85	47	11.75	39 23				
12.40	33	23.20	25 48	15.31	27	76.84	30 06	13.30	54	13.58	34 37				
11.71	37	24.30	20 30	12.17	29	77.13	38 35	15.85	55	13.85	39 40				
10.77	38	24.38	20 57	14.12	29	77.20	33 52	15.52	53 1	15.19	34 55				
14.87	42	25.53	24 33	13.73	29	77.25	39 07	15.26	6	16.45	35 22				
14.84	48	27.07	26 12	11.01	30	77.39	38 22	14.12	6	16.52	32 30				
15.01	52	28.11	23 13	15.42	37	79.14	30 29	15.15	9	17.17	39 11				
15.85	54 4	31.08	25 06	15.60	46	81.38	37 09	14.04	10	17.44	38 53				
13.30	5	31.16	27 00	15.76	53	83.22	36 53	15.85	14	18.61	36 07				
14.36	6	31.55	22 49	13.30	55	83.70	36 33	15.60	18	19.53	32 24				
15.15	8	31.91	24 15	13.85	56	83.92	34 37	15.01	23	20.84	35 40				

25 prec. + 77 sec. — 7′ 5″.

10^h Area 102. Centre for 1900: $10^h\ 50^m - 0^\circ\ 20'$. $- 0^\circ$

1—10				11—20				21—30				31—40				41—50			
Int. magn.	a	x	$y-20'$	Int. magn.	a	x	$y-20'$	Int. magn.	a	x	$y-20'$	Int. magn.	a	x	$y-20'$	Int. magn.	a	x	$y-20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.13	47 42	65.47	56 18	16.03	48 7	71.83	57 28	13.72	48 30	77.61	56 38	16.23	48 52	83.11	56 18	7.55	49 28	92.00	59 07
16.75	42	65.58	58 21	16.23	9	72.18	59 37	15.61	34	78.58	57 02	16.75?	53	83.35	55 37	15.70	28	92.12	50 42
15.61	43	65.72	50 42	16.42	10	72.53	55 54	16.23	36	78.96	51 26	16.75	54	83.56	57 16	14.95	31	92.85	54 05
12.84	46	66.43	58 50	15.90	14	73.45	53 39	16.75	37	79.24	59 06	16.38	49 3	85.65	55 02	14.95	34	93.40	50 31
14.91	50	67.56	55 06	15.36	16	74.11	50 16	16.66	40	80.05	51 29	15.99	4	85.88	57 49	15.70	42	95.42	50 40
15.40	50	67.62	57 04	14.25	19	74.82	53 55	16.38	45	81.32	55 26	12.66	4	86.09	53 44	16.38	42	95.61	51 55
16.75	52	67.96	50 02	14.69	23	75.85	55 39	16.11	46	81.46	56 11	12.30	6	86.58	56 34	14.91	45	96.28	50 37
11.96	48 0	69.93	50 24	15 48	27	76.63	56 26	16.75	47	81.67	57 51	13.17	7	86.79	59 21	15.78	46	96.59	53 03
16.11	2	70.47	55 34	15.27	28	76.90	58 49	16.38	49	82.34	52 48	12.04	10	87.57	50 36	14.91	48	97.01	57 47
16.23	2	70.54	59 36	15.36	28	77.10	52 07	16.11	50	82.50	50 52	15.90	26	91.49	52 10	15.18	51	97.82	55 08

25 prec. + 77 sec. — 7′ 57″.

Area 102.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y—20′	Int. magn.	α	x	y—20′	Int. magn.	α	x	y—20′	Int. magn.	α	x	y—20′	Int. magn.	α	x	y—20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.42	49 52	98.09	59 36	15.57	51 31	22.77	50 50	15.70	48 40	80.12	44 43	15.57?	50 22	5.48	43 33	13.72	52 26	36.48	40 38
16.75	50 1	0.17	59 54	14.82	31	22.86	59 10	15.61	42	80.50	41 13	16.66	25	6.21	48 23	12.04	27	36.66	43 13
16.75	1	0.30	56 43	15.99	35	23.78	53 53	15.70	49	82.13	42 49	14.95	26	6.55	40 38	14.60	27	36.73	45 56
16.66	4	1.09	57 26	16.75	36	23.99	56 37	14.38	49	82.33	42 42	14.69	26	6.59	43 54	16.75	27	36.81	44 36
15.36	6	1.45	51 12	16.38	39	24.82	52 49	15.04	53	83.35	41 45	11.18	27	6.78	40 57	16.75	34	38.38	42 54
16.38	9	2.29	53 35	16.66	42	25.54	57 23	15.61	55	83.66	42 15	15.36	27	6.80	46 49	15.36	36	39.01	49 31
16.42	10	2.40	52 25	15.90	47	26.79	52 19	15.82	56	84.10	43 15	13.33	28	6.90	40 38	16.75	37	39.36	40 50
8.50	11	2.65	53 29	16.03	53	28.30	57 16	16.75?	58	84.51	43 46	16.75?	29	7.28	45 21	16.19	39	39.71	47 20
15.48	15	3.78	59 03	15.40	52 0	29.93	50 58	14.47	49 2	85.48	43 48	15.70	40	9.95	48 43	16.75	40	39.88	42 13
12.04	16	3.88	50 09	12.63	2	30.45	54 02	15.27	4	86.10	41 41	14.73	46	11.42	47 31	16.30	40	40.00	42 51
16.50	17	4.16	59 43	16.38	2	30.49	53 05	16.66	6	86.60	47 33	15.61	46	11.53	43 35	15.36	42	40.54	46 05
16.23	19	4.71	59 30	15.13	5	31.20	58 38	15.36	7	86.65	49 47	16.66	47	11.86	40 33	16.42	43	40.79	43 17
16.66	22	5.47	59 37	15.61	5	31.31	58 44	16.75	8	86.99	47 34	15.74	54	13.62	49 19	16.75	43	40.79	40 54
13.94	23	5.81	51 56	15.40	6	31.42	55 26	16.75	9	87.25	49 58	14.95	59	14.66	41 45	16.75	44	40.93	40 58
12.78	24	6.03	52 42	16.42	13	33.23	57 33	13.60	11	87.85	40 22	16.42	51 2	15.39	43 56	16.50	47	41.82	45 13
16.75	25	6.18	53 03	15.13	16	34.03	54 17	16.23	13	88.26	49 16	14.82	3	15.66	42 00	11.92	47 40	65.08	38 52
11.88	30	7.50	54 01	16.50	17	34.22	51 15	16.75	16	89.07	47 57	15.61	4	15.97	48 34	12.53	41	65.16	30 21
13.64	31	7.74	53 27	16.75	19	34.68	55 15	16.75	19	89.81	41 29	16.75	6	16.49	47 36	14.16	41	65.20	37 36
15.13	32	7.95	57 19	15.90	23	35.80	53 59	15.70	21	90.36	49 23	16.75	6	16.52	45 27	16.19	45	66.17	36 47
15.04	32	7.95	59 55	15.18	25	36.12	54 07	16.66	22	90.45	42 01	15.36	8	16.98	48 27	16.11	48	66.99	37 30
13.94	32	7.96	50 36	15.99	25	36.13	57 25	15.61	22	90.57	44 25	14.95	8	17.02	40 48	12.40	48	67.04	39 40
16.19	38	9.54	58 20	15.18	26	36.42	57 59	14.25	25	91.21	43 34	16.03	9	17.24	45 33	16.75	50	67.58	38 25
16.23	39	9.81	54 34	16.30	27	36.79	59 23	15.48	26	91.50	42 46	15.00	9	17.29	40 24	16.75	53	68.18	30 24
16.75	46	11.44	52 12	16.75	30	37.62	55 41	16.75	35	93.86	45 15	16.75	12	17.89	40 26	16.75	48 1	70.32	35 58
16.75	47	11.71	53 27	15.82	39	39.72	51 20	16.38	36	94.02	45 49	16.38	12	17.97	44 15	13.11	2	70.49	33 15
16.75	47	11.73	55 08	15.70	39	39.81	53 26	16.30	37	94.22	43 55	16.19	22	20.44	45 59	9.45	5	71.15	30 50
16.30	51	12.63	59 57	16.75	50	42.39	54 14	15.13	38	94.41	46 33	14.03	22	20.60	47 03	16.42	7	71.66	36 08
16.66	51	12.83	56 22	16.75	53	43.32	51 14	15.48	38	94.43	45 42	15.70	29	22.24	44 10	16.75	9	72.07	32 10
11.92	51	12.83	51 45	16.75	56	44.03	57 04	13.60	41	95.20	49 23	15.04	30	22.59	41 40	15.70	11	72.64	30 41
16.11	53	13.23	59 27	15.90	47 44	65.90	47 37	16.75	43	95.75	47 15	15.18	37	24.30	44 09	16.42	12	73.01	37 53
12.20	53	13.32	57 55	13.94	45	66.18	49 54	16.03	43	95.83	48 25	16.75	38	24.51	46 23	15.61	20	74.99	38 56
16.23	54	13.43	51 36	16.75	45	66.30	48 15	16.75	44	96.06	47 34	15.99	39	24.72	48 49	16.75	23	75.69	31 18
14.60	56	13.96	59 59	16.03	53	68.17	45 08	16.03	50	97.56	49 01	14.60	41	25.28	43 26	14.07	23	75.73	35 36
14.69	56	14.00	57 04	12.08	54	68.43	40 51	14.82	51	97.79	47 25	14.73	42	25.56	43 43	15.70	24	75.88	31 01
15.82	58	14.53	56 24	16.75	58	69.41	40 26	16.75	51	97.83	42 45	12.56	46	26.47	44 10	16.75	25	76.12	32 37
13.05	59	14.84	51 12	14.91	48 3	70.72	49 46	16.03	54	98.52	47 15	15.99	48	27.09	44 04	14.51	32	78.02	32 47
13.94	51 0	15.07	58 03	12.66	7	71.66	45 28	16.75	59	99.63	41 35	16.66	50	27.48	41 24	16.19	33	78.24	35 36
15.82	1	15.21	55 01	15.99	10	72.55	42 55	14.16	50 0	0.10	47 43	12.50	51	27.70	41 01	15.57	40	80.05	33 57
16.75?	1	15.34	58 53	14.51	10	72.58	49 01	16.38	2	0.60	43 24	12.72	55	28.74	41 41	16.38	42	80.49	31 10
15.70	3	15.71	56 18	14.38	12	72.95	47 34	14.82	3	0.74	42 13	13.94	52 2	30.46	49 16	16.75	43	80.66	38 54
16.03	3	15.72	58 34	15.82	14	73.49	41 42	16.75	5	1.23	41 50	14.69	3	30.65	47 03	11.18	45	81.21	32 04
16.42	6	16.49	52 45	14.82	20	75.11	43 04	15.78	5	1.34	49 31	15.27	7	31.75	40 47	15.27	46	81.56	35 27
15.48	7	16.82	55 17	15.13	21	75.13	48 04	16.42	7	1.80	46 08	14.91	9	32.21	43 33	16.75	47	81.76	36 28
16.50	13	18.32	53 33	13.81	25	76.30	47 32	15.09	7	1.83	49 24	13.94	10	32.42	48 05	15.61	49	82.25	39 04
16.50	17	19.20	53 27	16.75	27	76.70	47 29	16.38	8	1.99	42 18	15.13	15	33.63	44 00	15.82	54	83.48	37 08
15.48	23	20.70	56 43	15.70	28	77.05	42 08	15.61	9	2.27	41 22	16.58	18	34.53	49 53	16.75	55	83.68	36 46
13.49	24	20.99	58 34	15.53	30	77.48	40 03	14.25	13	3.37	49 44	16.38	19	34.63	49 26	16.30	49 0	84.95	35 38
15.40	25	21.14	58 57	15.78	32	77.92	41 24	14.82	14	3.38	44 24	16.19	19	34.68	46 05	16.75	4	85.94	32 01
15.70	26	21.52	54 02	9.47	33	78.37	49 19	16.19	14	3.59	45 23	16.38	20	34.99	40 53	15.40	4	86.12	38 16
15.40	31	22.65	51 10	16.19	38	79.40	43 05	14.82	17	4.36	43 33	14.78	23	35.73	40 03	15.99	8	87.01	33 32

25 prec. + 77 sec. — 7′ 58″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	a	x	y—20′	Int. magn.	a	x	y—20′	Int. magn.	a	x	y—20′	Int. magn.	a	x	y—20′	Int. magn.	a	x	y—20′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.61	49 8	87.12	36 14	13.35	50 51	12.73	37 14	16.75	52 3	30.84	32 11	14.73	48 55	83.65	25 17	16.23	50 41	10.26	27 55
15.78	10	87.47	34 19	16.66	59	14.83	39 30	16.50	6	31.62	32 04	13.12	49 6	86.56	21 52	12.66	43	10.84	22 19
16.75	15	88.67	33 46	15.78	51 0	14.93	38 21	16.42	13	33.15	37 21	15.78	8	87.06	27 46	14.34	45	11.25	20 07
12.73	16	89.07	35 22	11.11	1	15.22	31 08	16.66	15	33.75	36 30	15.70	11	87.67	22 13	15.36	47	11.83	28 21
15.82	19	89.76	31 18	15.82	5	16.22	32 50	13.56	15	33.84	31 26	16.75	12	87.97	29 19	9.23	51	12.64	28 08
12.69	22	90.45	30 25	16.75	5	16.33	33 11	15.78	26	36.62	31 26	16.23	12	88.00	21 26	15.57	51	12.84	24 39
16.75	23	90.85	38 50	16.42	9	17.21	33 20	15.27	32	37.92	35 58	15.36	14	88.54	26 31	15.57	53	13.20	22 30
15.57	25	91.27	33 39	13.56	12	18.02	39 53	15.57	34	38.41	36 36	16.23	15	88.84	22 27	16.75	53	13.33	25 17
14.69	26	91.45	36 49	15.78	14	18.42	38 41	16.75	36	38.97	33 24	14.25	18	89.45	23 57	15.78	55	13.70	25 18
16.42	26	91.47	38 46	15.70	16	18.91	33 29	11.96	36	39.10	34 52	14.16	25	91.36	23 53	16.10	56	13.94	22 56
15.70	29	92.27	30 26	15.82	16	18.99	38 57	15.99	36	39.11	32 49	14.38	26	91.40	29 08	16.19	59	14.74	22 15
16.75	30	92.46	33 27	16.66?	18	19.60	35 18	13.47	39	39.85	34 35	16.75	26	91.43	25 16	13.72	59	14.84	24 26
14.51	30	92.58	36 16	11.24	20	20.01	35 41	16.19	42	40.37	35 05	16.75	28	91.94	27 26	15.40	51 0	14.88	22 29
14.60	33	93.15	38 02	12.33	21	20.34	36 14	14.95	44	41.11	36 14	15.27	29	92.20	27 22	16.19	0	15.02	28 43
15.61	36	93.93	35 28	15.04	24	20.97	32 54	14.95	46	41.46	36 49	12.50	29	92.25	24 41	14.69	0	15.04	28 32
16.23	36	93.94	37 32	16.11	25	21.23	30 06	16.42	47	41.69	38 09	10.17	31	92.66	23 31	16.42	3	15.81	22 17
15.61	37	94.35	30 37	15.90	26	21.60	37 46	15.53	51	42.84	39 42	13.72	31	92.80	28 54	16.75	4	16.00	26 33
14.69	39	94.85	31 10	16.75	27	21.71	37 47	16.11	52	43.12	35 28	16.75	33	93.19	29 05	15.70	4	16.12	26 24
15.18	40	94.94	30 29	15.99	27	21.76	36 47	14.16	53	43.22	30 14	15.40	34	93.56	27 05	15.90	5	16.13	22 06
16.75	44	96.11	34 31	11.52	27	21.79	38 33	14.69	59	44.77	34 40	16.75	37	94.13	24 54	16.75	10	17.48	28 55
16.75	45	96.18	30 56	16.75	28	22.00	31 09	15.70	47 42	65.45	29 03	15.40	38	94.43	24 27	16.19	14	18.42	22 23
16.42	49	97.21	39 08	15.27	28	22.09	36 22	16.50	54	68.56	22 03	9.06	43	95.86	23 06	16.75	15	18.64	21 22
13.11	50	97.62	39 28	15.36	30	22.47	33 45	16.42	57	69.37	27 55	14.69	44	95.90	20 57	16.75	16	19.01	25 30
15.70	51	97.81	35 54	16.75	30	22.54	38 22	16.75	48 4	70.89	26 32	16.75	46	96.38	26 16	15.70	17	19.17	26 02
15.82	52	98.00	33 26	16.66	31	22.69	32 58	12.66	11	72.78	23 37	16.75	46	96.42	21 41	15.36	17	19.21	24 53
12.50	53	98.15	35 32	16.75	31	22.76	33 15	15.36	13	73.27	25 06	16.50	46	96.60	22 37	16.11	20	19.95	28 35
13.94	54	98.55	35 51	14.38	32	22.91	36 58	15.61	14	73.44	27 11	16.19	48	97.00	21 18	14.60	23	20.86	22 22
16.66	57	99.18	39 06	16.75	32	22.98	33 21	13.64	14	73.45	23 06	16.23	50	97.57	20 57	15.61	27	21.80	27 34
16.75	57	99.31	33 48	16.75	32	23.11	34 33	15.40	17	74.34	27 15	13.07	55	98.81	20 37	13.33	31	22.77	20 37
15.61	50 1	0.18	30 39	16.50	33	23.20	35 03	16.03	18	74.38	20 09	14.60	56	99.10	26 53	15.78	31	22.79	24 37
16.23	6	1.60	34 14	8.01*	34	23.49	38 05	15.90	19	74.82	22 15	15.27	58	99.43	24 51	13.01	32	22.95	24 30
15.18	7	1.71	31 16	14.25	36	23.88	36 02	16.42	23	75.72	27 10	16.75	50 2	0.59	24 32	16.75	33	23.29	25 23
15.61	20	4.88	36 19	14.07	36	23.91	33 42	16.66	24	75.91	23 02	15.40	4	0.99	22 01	15.70	36	24.07	27 42
15.82	21	5.33	39 19	16.50	38	24.52	39 06	15.90	25	76.13	26 50	15.13	9	2.19	21 47	16.75	37	24.17	27 16
16.75	22	5.39	31 02	15.99	42	25.58	33 05	16.66	25	76.34	22 43	16.23	13	3.19	23 25	15.70	41	25.20	26 22
15.61	22	5.49	37 29	15.82	44	26.08	34 50	16.50	26	76.60	22 02	16.66	13	3.32	24 37	12.80	41	25.22	23 24
15.48	22	5.58	39 43	15.36	45	26.37	38 02	16.23	30	77.53	24 07	16.75	15	3.68	23 33	14.29	44	26.03	24 40
15.31	26	6.47	39 56	14.07	46	26.48	36 08	16.75	31	77.63	22 28	16.50	15	3.78	27 06	14.38	45	26.36	29 58
13.72	28	7.07	31 32	16.75	47	26.67	37 58	16.75	32	78.11	20 45	16.75	16	3.90	20 14	14.07	52	27.92	28 54
16.11	31	7.67	38 47	14.51	48	26.88	30 05	14.60	39	79.77	21 09	16.75	22	5.43	27 03	15.61	54	28.48	26 52
16.75	36	8.96	34 08	15.78	50	27.59	37 57	16.11	40	80.02	26 06	13.49	23	5.66	23 08	16.50	55	28.64	26 08
15.27	36	9.06	39 18	16.75	51	27.77	31 51	13.12	41	80.28	21 50	14.51	24	6.04	22 01	16.75	59	29.83	23 52
15.99	38	9.55	32 21	15.18	52	27.88	30 49	13.94	47	81.76	28 54	16.23	28	7.05	26 33	11.11	52 1	30.24	29 11
15.99	41	10.22	36 44	16.75	54	28.52	33 04	16.03	48	82.02	28 05	15.61	33	8.25	27 32	12.50	1	30.25	29 23
16.75?	44	10.93	35 37	14.38	55	28.67	39 56	16.75	49	82.29	28 33	12.24	35	8.65	29 17	15.48	1	30.33	25 52
16.46	44	11.03	30 08	14.07	57	29.18	37 56	13.25	50	82.40	20 31	16.58	36	9.05	20 13	16.11	2	30.38	27 41
16.38	45	11.34	33 31	16.19	57	29.33	37 23	14.38	50	82.61	28 40	15.78	39	9.73	20 45	15.90	3	30.73	26 52
15.18	46	11.52	39 59	13.72	58	29.43	31 26	15.70	52	83.06	25 13	15.61	39	9.85	25 00	16.19	5	31.29	26 30
14.82	47	11.72	34 16	16.75	52 0	30.11	36 09	16.23	52	83.07	24 51	12.89	40	9.88	20 38	15.70	7	31.86	28 33
15.40	50	12.57	31 53	16.75	1	30.17	31 45	16.30	53	83.23	29 09	15.57	40	9.89	25 38	14.51	8	32.11	25 46

25 prec. + 77 sec. — 7′ 58″.

551—600				601—650				651—700				701—750				751—800			
Int. magn.	α	x	$y-20'$	Int. magn.	α	x	$y-20'$	Int. magn.	α	x	$y-20'$	Int. magn.	α	x	$y-20'$	Int. magn.	α	x	$y-20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.28	52 14	33.54	26 02	14.73	49 19	89.67	15 23	16.11	51 5	16.34	15 46	14.29	52 49	42.22	12 18	14.91	49 38	94.38	2 14
16.19	17	34.22	21 14	15.48	23	90.65	18 52	13.72	7	16.75	13 28	12.96	49	42.32	17 10	10.57	41	95.34	3 27
16.75	18	34.48	29 05	16.42	24	91.12	12 54	14.47	9	17.32	19 02	13.72	50	42.59	14 04	16.50	43	95.73	9 11
16.66	25	36.15	23 14	16.11	25	91.25	10 05	15.82	12	17.88	10 33	16.30	52	42.94	19 26	14.38	45	96.18	2 53
12.04	28	36.99	26 49	15.04	27	91.68	16 46	16.38	15	18.72	18 10	15.70	58	44.51	19 26	16.30	45	96.33	4 20
16.19	32	37.89	25 00	16.30	28	92.04	19 25	16.42?	15	18.76	17 54	14.51	58	44.53	18 12	14.82	48	96.94	5 54
15.99	32	37.99	25 09	16.11	29	92.24	10 21	16.19	17	19.13	18 04	16.75	47 40	65.03	1 41	16.03	49	97.32	8 34
15.82	33	38.30	24 02	13.22	30	92.41	14 36	12.56	19	19.67	11 28	16.75	42	65.38	1 08	15.78	49	97.36	8 11
15.13	38	39.38	27 38	15.36	31	92.76	12 53	16.75	19	19.74	19 56	15.95	48	66.96	0 41	16.50	50	97.52	8 57
14.56	39	39.64	20 10	16.19	32	93.04	11 48	16.50	21	20.31	13 05	15.82	54	68.60	7 10	16.23	53	98.21	9 44
16.75	49	42.29	20 44	16.75	32	93.12	13 36	16.75	23	20.81	18 53	15.04	55	68.81	6 22	14.03	56	98.87	9 50
13.19	51	42.72	28 05	15.36	34	93.49	15 43	16.75	24	20.94	13 06	16.30	58	69.48	6 02	15.13	58	99.38	4 02
13.98	52	42.99	29 39	15.27	35	93.87	19 23	15.78	25	21.32	12 07	12.54	58	69.54	2 41	14.60	59	99.70	9 28
13.12	56	44.08	27 00	14.95	38	94.53	11 57	16.66	25	21.36	11 27	16.75	48 0	69.88	5 25	16.75	50 3	0.78	2 46
15.78	47 46	66.39	19 16	12.75	39	94.83	11 13	16.03	27	21.70	17 21	16.75	0	70.00	3 22	16.75?	6	1.52	2 23
16.11	48	66.96	16 38	11.96	41	95.14	19 55	15.82	29	22.31	12 25	15.27	1	70.25	6 51	16.23	8	1.95	4 35
16.75	48	67.05	17 56	16.03	51	97.73	14 46	16.30	30	22.55	15 36	16.30	1	70.25	6 05	12.63	10	2.59	4 23
15.70	48 0	69.96	14 30	15.99	52	98.00	14 35	14.38	31	22.79	10 50	15.27	2	70.42	4 33	16.11	14	3.58	2 07
16.38	1	70.18	10 39	15.99	53	98.22	12 12	16.75	34	23.59	11 33	15.57	3	70.85	8 07	16.23	16	4.10	9 19
15.82	1	70.26	15 09	10.96	59	99.69	16 21	15.82	38	24.51	11 11	14.51	5	71.17	8 48	15.04	20	4.99	3 16
14.16	7	71.64	11 15	16.66	50 2	0.48	13 22	15.90	39	24.78	17 36	16.03	5	71.23	3 08	16.50	20	5.08	2 18
15.82	8	72.07	13 38	12.97	3	0.63	12 20	16.03	41	25.35	11 39	15.57	19	74.67	3 01	16.58	21	5.17	9 49
14.82	8	72.07	18 08	13.94	8	2.11	17 00	13.22	44	26.07	17 28	15.78	20	75.00	1 23	15.09	22	5.54	0 33
13.85	11	72.66	12 49	16.75	10	2.49	16 25	16.19	48	26.93	16 05	15.70	21	75.23	2 07	15.36	28	7.08	9 27
15.04	11	72.86	12 20	9.05*	18	4.49	16 47	16.19	48	27.00	11 46	14.69	22	75.49	8 33	13.43	28	7.08	1 11
16.46	14	73.41	10 37	16.50	20	4.99	18 37	16.66	49	27.27	16 14	16.75?	23	75.84	6 45	15.13	31	7.76	1 04
16.75	15	73.74	15 03	14.51	20	5.02	12 43	15.04	49	27.35	13 56	12.96	27	76.82	4 41	14.73	32	8.09	9 00
14.91	16	74.11	14 57	16.42	22	5.39	15 15	14.69	50	27.54	11 46	12.66	29	77.34	9 16	15.57	33	8.16	2 23
16.75	21	75.36	17 46	15.57	22	5.46	11 56	9.95	50	27.57	18 49	15.90	37	79.25	8 26	16.11	42	10.44	4 20
15.61 ?	32	77.90	15 46	16.66	22	5.54	17 03	11.48	52	27.95	18 59	16.19?	38	79.55	0 30	15.40	43	10.66	5 17
16.42	32	78.01	12 00	16.11	22	5.59	12 06	15.70	54	28.54	12 27	15.70	39	79.73	4 48	16.75	43	10.74	0 53
16.75	36	78.94	19 00	15.78	26	6.58	15 36	16.66	57	29.21	14 29	16.30	47	81.86	2 06	16.38	47	11.85	2 36
16.66?	36	79.07	14 44	16.27	31	7.69	10 31	16.75	57	29.36	14 53	16.23	52	82.89	4 42	16.50	51	12.75	0 05
16.42	41	80.14	13 53	15.04	34	8.47	12 56	15.48	52 0	30.09	18 10	16.23	53	83.25	5 33	16.30	54	13.46	4 20
16.30	41	80.33	17 02	15.40	34	8.50	13 30	14.95	3	30.78	17 05	14.91	54	83.60	3 59	14.73	55	13.74	7 46
15.78	42	80.38	11 17	13.72	34	8.53	15 59	16.75?	12	33.02	11 09	14.60	55	83.86	2 04	16.50	57	14.32	3 04
16.75	42	80.51	10 11	16.75	37	9.17	12 37	11.04	13	33.15	10 12	16.75	57	84.17	3 02	14.51	51 0	15.01	8 58
13.22	46	81.47	18 35	16.75	37	9.27	15 35	16.75	20	35.04	11 17	15.74	49 1	85.14	0 25	13.42	1	15.29	8 06
15.78	49	82.20	13 12	16.19	42	10.42	14 15	16.75	21	35.24	19 07	11.11	5	86.15	0 08	16.23	4	15.90	9 29
16.75	49	82.27	16 48	13.94	44	10.96	15 08	16.75	25	36.26	18 12	16.75	10	87.46	2 11	16.75	4	16.12	9 35
15.36	50	82.51	10 47	13.17	44	11.11	15 30	14.16	26	36.49	14 26	16.75	10	87.55	9 01	16.50	5	16.22	2 53
16.19	50	82.58	14 05	14.60	45	11.13	12 18	16.75	30	37.49	14 20	16.75	10	87.56	8 40	16.30	7	16.81	3 45
16.50	55	83.69	16 34	16.75	47	11.66	10 06	15.70	33	38.19	18 54	12.14	11	87.79	4 07	16.50	8	16.91	1 43
14.03	56	84.04	14 35	16.75	50	12.40	19 37	16.23	33	38.35	14 56	13.85	14	88.46	3 37	16.75	8	17.00	1 51
14.95	59	84.79	10 04	14.16	50	12.41	14 09	15.13	34	38.50	12 53	16.66	16	89.01	1 31	16.11	8	17.12	8 10
15.27	59	84.84	19 09	16.23	51	12.64	19 35	13.94	39	39.64	13 33	15.82	18	89.45	3 25	16.42	11	17.69	5 51
16.11	49 0	84.98	14 57	13.77	56	14.01	10 01	14.91	40	39.91	18 38	11.88	19	89.82	6 03	15.18	12	17.88	5 10
16.19	7	86.81	16 47	16.42	51 1	15.26	16 54	12.87	41	40.30	12 22	16.75	23	90.69	0 07	14.07	17	19.22	8 08
13.56	10	87.58	19 22	15.57	3	15.71	17 01	16.75	41	40.33	12 37	15.70	35	93.82	1 18	16.75	19	19.63	9 27
16.19	16	89.03	17 16	13.36	5	16.33	15 09	16.23	42	40.49	11 08	14.51	35	93.83	4 24	16.38	20	19.95	9 17

25 prec. + 77 sec. — 7′ 58″.

Area 102.

801—850				851—900				901—950				951—1000				1001—1050			
Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′	Int. magn.	α	x	y−20′
	m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″
16.75	51 21	20.13	−0 12	13.56	47 57	69.26	2 01	16.50	50 4	1.02	8 05	15.27	52 21	35.29	7 34	16.75	49 13	88.36	14 41
12.43	28	22.01	1 22	15.90	48 2	70.50	6 56	16.19	5	1.27	7 45	16.75	22	35.39	3 06	16.46	15	88.72	10 00
14.07	28	22.01	8 19	16.75	4	71.09	2 34	13.94	5	1.27	9 41	14.56	29	37.20	0 03	10.81	15	88.83	14 19
16.42	32	22.98	7 09	15.70	5	71.32	8 22	13.34	5	1.36	7 52	13.19	30	37.48	7 48	16.50	17	89.14	19 59
15.82	35	23.67	4 55	16.42	13	73.20	4 24	15.18	6	1.48	1 38	10.82	33	38.31	9 50	15.90	21	90.23	13 11
16.50	37	24.21	5 36	15.61	13	73.33	1 04	16.75	7	1.87	9 18	15.13	36	38.94	7 28	14.69	21	90.23	11 15
16.38	40	24.88	7 47	14.73	20	74.99	9 05	16.75	23	5.75	9 11	11.78	37	39.36	4 36	13.72	23	90.85	13 31
16.50	42	25.50	4 15	14.82	20	75.08	2 26	15.04	28	7.05	6 57	10.18	38	39.39	6 32	16.38	25	91.24	12 02
15.61	43	25.64	4 43	15.61	21	75.31	8 14	16.38	33	8.32	8 04	16.30	41	40.16	3 26	15.61	26	91.55	18 05
16.75	45	26.23	3 12	16.11	29	77.15	5 01	14.34	36	8.95	9 25	12.06	44	40.96	8 46	16.11	27	91.68	13 07
16.46	50	27.51	0 25	12.66	30	77.59	4 54	16.75	39	9.63	6 22	16.23	47	41.64	9 44	15.40	29	92.21	13 26
16.66	54	28.56	6 45	15.40	36	78.97	7 27	16.38	41	10.25	4 10	16.75	52	42.88	2 40	16.11	29	92.23	19 43
16.75	54	28.57	0 44	16.15	38	79.41	9 48	16.75	44	10.95	6 50	16.75	52	43.07	3 40	14.60	32	93.09	11 22
16.38?	56	28.87	8 29	16.75	39	79.71	3 35	16.75	46	11.47	6 16	13.56	56	43.88	0 15	14.25	34	93.43	15 12
16.30	56	29.06	2 24	14.29	39	79.87	4 19	16.11	47	11.69	3 56	13.56	56	43.89	1 00	16.75	34	93.52	15 03
12.05	57	29.16	2 46	15.70	40	79.96	8 06	16.75	48	12.11	7 51	16.50	47 42	65.45	17 13	15.78	35	93.80	12 03
16.66	52 0	29.91	2 09	16.11	41	80.18	3 02	14.69	50	12.62	4 24	16.75	42	65.57	17 50	16.75	41	95.19	17 03
15.61	0	30.03	5 10	14.47	42	80.58	0 54	16.11	52	13.02	0 45	16.75	44	65.93	17 07	15.82	43	95.66	17 14
15.90	1	30.27	5 50	16.75	48	82.09	7 35	15.57	55	13.83	5 42	14.51	45	66.27	14 16	13.64	43	95.73	16 50
13.12	2	30.45	1 38	16.75	51	82.82	8 36	14.64	58	14.51	9 26	14.73	54	68.42	11 48	16.38	46	96.57	17 21
11.32	2	30.46	1 55	14.91	55	83.71	2 05	13.72	51 2	15.37	3 53	14.29	56	68.90	13 11	16.03	54	98.61	19 47
13.51	3	30.71	0 36	15.70	58	84.46	3 08	15.78	3	15.70	6 55	16.75	56	69.03	11 54	14.91	55	98.85	19 23
15.95	4	31.12	0 09	14.82	58	84.66	3 49	15.61	4	15.95	8 08	15.48	57	69.31	17 18	16.75	56	98.97	16 34
16.75	5	31.21	3 53	15.40	59	84.75	6 26	16.75	5	16.20	7 50	12.40	59	69.83	15 07	14.16	57	99.22	11 05
12.24	6	31.62	5 36	15.04	49 14	88.51	3 44	14.16	6	16.43	0 03	13.94	48 13	73.32	16 30	16.50	58	99.57	18 31
16.75	13	33.23	0 39	16.42	15	88.83	9 28	16.66	11	17.67	8 28	14.69	14	73.52	14 24	15.48	50 3	0.67	11 10
16.75	14	33.53	7 48	16.75	16	88.93	4 34	15.57	15	18.83	6 13	16.30	14	73.52	10 34	14.47	5	1.21	13 23
15.36	15	33.87	2 19	16.75	22	90.37	2 51	16.75?	18	19.49	8 40	16.03	18	74.50	15 27	16.03	10	2.47	19 38
16.75	17	34.19	5 44	15.13	22	90.45	1 15	14.95	22	20.54	5 01	16.75	19	74.66	17 24	16.11	11	2.65	10 57
16.75	18	34.54	8 30	16.75	24	90.96	5 17	15.61	22	20.58	8 04	16.75	24	75.88	14 40	16.42	12	3.12	10 26
15.36	19	34.77	2 40	16 38	25	91.32	3 45	13.19	24	21.01	9 21	16.66	29	77.36	13 11	14.29	13	3.35	13 51
13.72	20	35.09	8 11	15.04	26	91.40	3 21	14.60	27	21.87	6 34	12.14	30	77.40	14 58	14.60	15	3.76	16 33
13.72	23	35.80	9 33	12.75	32	93.06	8 22	15.04	30	22.47	1 37	14.47	42	80.62	17 30	16.11	15	3.83	13 34
16.23	24	36.02	5 20	15.04	34	93.51	3 49	16.38	34	23.46	4 17	15.61	43	80.69	17 44	15.90	17	4.24	17 09
14.95	25	36.36	3 40	15.61	36	94.12	0 50	14.38	34	23.54	6 37	15.61	44	81.08	18 02	16.50	23	5.82	14 44
15.78	29	37.22	8 48	15.27	37	94.30	5 07	15.82	35	23.86	1 37	15.40	45	81.20	18 10	16.23	25	6.19	15 20
16.75	32	38.00	2 25	15.99	38	94.52	4 17	15.48	36	24.07	9 05	15.57	45	81.35	13 10	15.27	25	6.25	12 34
16.75	36	38.92	1 50	16.50	39	94.83	5 46	16.23	43	25.67	4 44	16.66	46	81.68	11 47	14.51	26	6.42	17 10
15.61	38	39.41	1 03	12.78	39	94.86	8 06	14.91	48	27.03	2 45	16.38	51	82.74	17 26	15.90	28	7.10	15 14
16.75	39	39.68	5 22	13.19	40	94.88	7 12	16.75?	48	27.06	7 55	15.82	54	83.49	13 11	15.48	29	7.13	10 43
15.57	39	39.82	0 44	16.11	41	95.13	8 40	16.66	54	28.54	3 11	14.69	54	83.56	13 32	15.70	29	7.14	12 54
12.56	46	41.59	0 23	16.75	41	95.22	3 58	16.19	57	29.26	8 04	16.75	55	83.79	13 51	15.61	30	7.38	13 30
14.82	51	42.80	1 57	15.82	44	96.00	3 45	12.56	59	29.82	0 54	16.75	57	84.15	15 17	16.75	33	8.24	10 58
12.85	55	43.86	2 56	16.75	46	96.60	7 03	15.82	52 1	30.37	3 33	15.78	57	84.20	19 14	13.56	35	8.83	14 19
16.75	59	44.77	5 00	16.75	47	96.83	4 25	15.13	5	31.23	4 54	15.82	58	84.53	14 19	16.42	37	9.18	16 51
15.13	53 0	44.93	−8 40	12.91	52	98.01	6 47	15.61	8	31.99	3 07	15.18	59	84.70	11 29	16.42	42	10.61	18 49
13.60	47 41	65.18	+2 44	15.99	52	98.07	1 48	12.87	15	33.74	9 00	12.38	49 3	85.82	12 48	16.21	47	11.68	17 45
14.91	41	65.30	2 36	15.99	50 1	0.22	1 08	15.48	17	34.23	9 28	15.13	6	86.61	17 20	13.72	51	12.81	19 39
15.78	43	65.74	4 43	15.48	2	0.59	2 31	13.11	19	34.70	6 40	15.99	8	87.03	14 54	16.19	54	13.50	14 13
15.70	55	68.86	+1 28	15.90	4	0.88	8 21	14.73	20	35.11	4 23	16.66	10	87.53	11 51	16.30	51 2	15.38	18 32

25 prec. + 77 sec. — 7′ 58″.

10^h Area 102. $+0°$

1051—1070				1071—1090				1091—1108			
Int. magn.	α	x	$y-20'$	Int. magn.	α	x	$y-20'$	Int. magn.	α	x	$y-20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.85	51 2	15.45	10 12	13.11	51 39	24.66	13 08	9.32	52 19	34.66	17 13
15.57	5	16.13	16 54	16.75	40	24.94	19 10	14.29	20	35.09	14 35
15.61	7	16.69	13 00	16.42	43	25.67	14 55	15.13	22	35.58	16 43
16.03	7	16.76	10 57	15.61	43	25.76	16 33	15.40	24	35.89	18 31
14.29	8	16.90	12 12	15.36	46	26.45	15 34	15.78	25	36.27	12 56
15.82	10	17.54	15 52	14.47	46	26.61	12 51	16.11	29	37.27	14 19
14.60	10	17.58	15 31	16.66	50	27.62	15 49	16.75	35	38.65	17 42
16.75	11	17.78	14 56	16.03	51	27.82	16 12	16.75	35	38.78	11 50
16.03	12	17.94	17 39	15.13	54	28.44	13 51	16.75	41	40.19	12 54
15.36	20	20.01	16 06	16.75	55	28.70	16 31	16.11	41	40.28	11 35
13.94	24	20.97	19 00	9.65	57	29.14	18 53	15.57	41	40.31	14 24
15.48	25	21.37	15 28	16.23	59	29.70	17 45	16.66	41	40.35	15 11
16.38	26	21.58	14 48	16.75	52 0	29.96	16 14	13.94	50	42.46	11 19
15.99	28	22.07	16 35	16.75	1	30.32	17 57	16.75	52	42.94	16 57
13.19	30	22.38	18 54	7.09*	1	30.34	13 24	15.40	52	43.06	13 13
16.75	34	23.37	15 40	13.94	3	30.72	16 20	16.75	53	43.29	19 49
16.23	34	23.55	19 12	16.75	4	31.01	14 15	16.75	53	43.32	19 23
15.70	36	23.91	14 04	15.36	7	31.81	10 08	14.51	57	44.24	11 36
8.26	37	24.39	11 18	13.72	10	32.59	14 07				
12.39	38	24.46	18 57	15.04	12	33.12	11 00				

25 prec. + 77 sec. — 7′ 59″.

11^h Area 103. Centre for 1900: 11^h 50^m 0° 0′. $-0°$

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.42	47 15	58.71	31 07	15.52	48 8	71.94	37 52	16.09	49 3	85.70	36 54	15.65	50 16	3.93	35 21	16.42	51 27	21.76	31 07
14.90	20	59.91	36 33	16.42?	13	73.37	35 14	11.93	8	86.90	38 41	15.99	20	5.02	32 55	15.65	32	23.02	37 13
15.31	20	60.08	35 54	16.42	15	73.64	38 40	15.42	8	87.03	30 02	16.09	23	5.69	35 30	16.17	39	24.70	32 05
15.65	22	60.55	33 31	15.78	17	74.21	39 07	12.41	9	87.23	35 09	15.12	29	7.20	37 28	15.06	40	25.02	34 34
15.83	26	61.46	39 27	12.14	19	74.79	37 54	16.12	16	88.93	32 35	10.30	29	7.20	30 46	16.42	43	25.81	30 56
15.52	29	62.33	35 37	16.42	20	75.04	37 30	16.12	19	89.79	39 30	16.42	34	8.39	34 33	16.42	44	26.03	33 32
15.31	33	63.29	33 39	16.42	24	76.04	33 52	12.62	21	90.37	38 30	16.12	41	10.18	37 02	14.84	50	27.39	32 58
16.42	34	63.45	31 22	15.39	28	76.92	31 25	16.17	26	91.46	38 20	14.23	45	11.28	32 41	16.42	53	28.13	31 19
16.42	36	64.02	35 48	12.10	28	76.96	39 49	15.12	28	91.95	37 37	16.17	47	11.80	33 22	14.23	52 0	29.99	34 19
12.66	39	64.78	38 31	15.65	30	77.53	30 46	16.42	29	92.31	31 48	16.33	48	11.91	33 25	16.42	0	30.09	30 06
14.78	42	65.51	32 47	15.70	31	77.65	39 34	14.55	33	93.31	37 58	15.52	56	13.89	38 09	14.84	3	30.73	34 09
16.42	45	66.30	37 30	16.12	32	77.92	34 32	15.44	39	94.65	39 11	14.05	51 1	15.26	30 18	13.14	4	30.89	39 51
14.05	51	67.83	30 31	12.72	35	78.85	39 50	15.96	39	94.67	37 42	14.29	4	16.11	30 06	14.98	12	33.08	35 48
13.28	53	68.14	37 30	15.34	37	79.35	39 47	16.42	40	95.09	34 24	14.84	5	16.34	34 09	12.68	14	33.52	30 33
14.84	53	68.32	39 43	16.33	44	80.95	36 11	12.89	41	95.37	31 30	15.06	5	16.36	32 33	11.70	17	34.30	32 11
15.99	48 1	70.23	33 44	16.42	50	82.62	34 14	16.33	51	97.74	38 12	15.57	6	16.51	30 26	15.44	21	35.17	35 03
14.75	2	70.41	39 03	16.42	52	83.04	38 31	15.47	50 0	0.02	33 59	16.42	21	20.17	39 41	11.80	23	35.82	35 07
13.67	3	70.69	35 36	10.84	55	83.86	39 03	15.70	5	1.21	31 05	15.25	22	20.41	34 16	16.42	24	36.05	31 39
14.84	4	71.09	37 18	15.83	58	84.41	33 16	16.42	6	1.53	34 19	16.42	22	20.50	33 30	15.60	27	36.67	31 29
16.42	7	71.87	37 15	15.44	49 2	85.42	31 29	15.17	9	2.34	37 22	14.98	25	21.29	34 43	16.42	27	36.84	39 05

25 prec. + 77 sec. — 8′ 21″.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.55	52 29	37.18	31 33	15.39	49 38	94.56	22 30	15.20	52 12	32.96	28 05	15.60	49 23	90.78	10 45	15.60	50 55	13.71	15 52
14.69	32	37.94	38 12	14.84	39	94.77	26 36	14.69	12	33.10	28 44	16.42	23	90.85	19 33	9.65	59	14.73	14 31
16.12?	47 12	58.01	20 02	15.39	43	95.75	28 41	16.42	19	34.81	28 25	13.53	25	91.14	12 03	15.25	51 6	16.49	14 17
16.42	16	59.11	29 15	16.42	44	95.92	27 36	11.73	20	34.98	23 27	16.42	29	92.17	13 08	14.75	9	17.36	11 21
15.99	19	59.69	24 24	14.23	46	96.56	22 27	16.42	23	35.68	26 26	15.86	31	92.87	14 08	12.93	15	18.80	18 50
14.84	19	59.70	22 57	15.57	52	97.90	22 53	16.17	29	37.29	27 10	16.42	32	92.94	13 04	13.87	25	21.28	13 41
14.55	23	60.84	28 22	16.42	53	98.37	21 39	16.42	29	37.33	23 16	15.20	33	93.14	15 36	11.86	30	22.50	15 59
16.42	26	61.59	24 16	14.05	57	99.17	21 16	15.86	47 16	59.04	14 53	14.55	34	93.53	16 24	13.67	33	23.37	16 42
15.96	27	61.85	22 50	15.65	58	99.51	23 02	14.55	17	59.34	11 11	12.75	35	93.79	19 49	15.65	36	23.88	18 46
16.42	33	63.17	21 04	15.57	59	99.66	26 27	13.05	19	59.70	17 42	14.29	38	94.41	19 24	15.86	36	24.01	11 59
15.25	33	63.19	28 14	15.73	59	99.67	28 43	16.42	20	59.91	17 31	16.17	39	94.72	13 48	16.04	38	24.40	12 54
16.42?	36	63.99	20 19	15.78	50 2	0.38	25 33	15.04	22	60.59	13 07	16.42	41	95.14	13 58	13.53	38	24.58	15 08
15.70	39	64.76	28 14	16.42	2	0.47	29 01	16.42	27	61.64	19 30	14.90	41	95.15	10 28	15.91	44	26.02	12 12
15.65	40	64.98	28 22	14.23	8	2.01	25 25	14.05	29	62.22	12 54	16.42	42	95.45	15 09	15.91	47	26.76	16 16
14.23	45	66.23	26 49	12.99	15	3.86	20 52	16.42	32	63.04	12 57	13.67	44	95.91	18 32	15.65?	50	27.50	11 31
16.42	49	67.20	28 33	15.39	18	4.40	20 53	15.44	34	63.45	12 38	16.09	44	95.92	12 59	15.52	56	28.91	19 00
15.99	48 2	70.44	29 02	11.56	28	7.06	24 06	14.69	38	64.49	12 47	16.33	44	96.03	14 28	15.44	58	29.51	11 45
13.14	9	72.23	23 56	15.91	34	8.52	25 52	14.64	41	65.30	18 58	16.42	44	96.09	16 19	15.99	52 2	30.50	11 51
16.42	11	72.68	25 26	16.07	47	11.79	29 40	15.78	42	65.40	16 40	16.33	50	97.46	19 49	16.42	4	30.93	11 25
15.78	12	73.10	25 02	14.39	50	12.61	20 42	14.23	44	66.08	19 01	15.47	51	97.71	11 47	16.09	5	31.35	19 13
12.90	15	73.70	27 26	15.65ne	52	12.95	26 37	14.69	45	66.18	13 51	15.70	51	97.83	11 27	15.70	10	32.44	19 56
15.78	17	74.31	25 35	15.78	53	13.37	26 28	15.91	47	66.80	13 18	10.67	53	98.24	11 39	14.23	11	32.65	15 35
12.24	23	75.78	23 46	16.42	54	13.60	21 02	16.12	47	66.82	10 54	15.99	54	98.46	15 19	14.90	11	32.80	11 07
16.17	25	76.31	28 31	14.05	51 6	16.41	25 18	15.31	54	68.59	11 01	16.42	54	98.51	15 52	16.42	15	33.74	15 49
15.25	32	77.88	24 22	16.42	10	17.61	25 50	11.56	56	68.97	12 21	14.84	50 4	0.97	18 51	15.20	18	34.56	15 53
15.99	34	78.39	21 02	13.13	11	17.82	21 59	16.33	56	69.10	17 06	14.05	4	0.97	14 33	14.92	19	34.63	15 59
16.42	38	79.54	29 23	15.06	14	18.38	23 34	16.42	57	69.13	14 56	16.42	4	1.00	17 37	14.55	19	34.65	14 24
16.12	42	80.59	22 31	16.17	16	18.89	22 26	15.25	58	69.58	14 07	13.53	5	1.17	18 31	12.26	23	35.72	12 33
15.44	45	81.27	27 53	15.34	21	20.21	20 20	15.06	59	69.67	14 56	14.23	5	1.22	11 57	16.42	30	37.45	10 39
15.65	46	81.55	23 03	16.12	29	22.28	28 43	16.17	48 1	70.13	10 05	12.98	8	1.96	10 31	13.67	31	37.81	18 02
15.47	46	81.58	25 39	15.01	32	22.98	20 04	14.49	4	71.04	10 32	15.91?	9	2.27	14 14	16.17	47 19	59.82	8 18
15.70	49	82.18	29 03	13.87	32	23.07	23 42	16.42	8	71.93	15 12	12.05	10	2.62	17 51	16.42	20	59.94	1 07
15.99	49	82.22	22 56	16.42	33	23.24	20 57	16.33	10	72.45	10 37	16.04?	12	3.08	14 14	15.96	24	60.96	4 32
16.42	51	82.87	25 46	15.52	39	24.84	25 49	16.42	13	73.20	14 45	16.42?	13	3.15	13 50	15.17	27	61.72	4 11
9.10*	55	83.74	28 59	15.91	40	24.95	20 32	15.70	21	75.21	15 10	14.39	18	4.41	17 30	11.12	28	61.91	0 45
16.42	59	84.86	25 45	16.42	43	25.64	28 46	15.60	23	75.64	12 47	14.23	21	5.36	11 53	15.57	31	62.63	4 27
15.44	49 0	84.88	20 29	13.43	43	25.81	23 51	14.69	24	76.04	12 15	14.55	25	6.31	13 54	14.05	31	62.72	1 34
13.79	4	85.95	20 07	16.17	44	25.95	22 05	15.91	30	77.43	16 31	14.98	27	6.69	13 50	15.73	37	64.21	3 21
12.73	6	86.38	21 06	14.29	46	26.55	22 39	15.99?	34	78.41	19 57	16.33	27	6.73	15 19	14.69	40	65.10	0 46
15.86	12	87.94	22 35	15.34	47	26.73	22 04	13.67	35	78.67	18 08	14.49	30	7.41	16 27	14.23	43	65.85	4 31
16.42	13	88.25	26 41	14.23	50	27.62	24 49	16.42	36	79.11	18 39	16.17	30	7.61	17 45	14.64	44	65.91	7 50
15.60	15	88.82	28 40	14.45	55	28.75	22 34	14.84	44	81.03	15 08	16.42	31	7.68	12 52	12.08	45	66.18	1 09
16.42	17	89.21	23 01	16.12	55	28.82	28 41	15.20	46	81.52	17 58	15.04	36	8.96	16 08	16.42	46	66.55	9 40
14.84	18	89.61	20 38	12.18	58	29.53	28 41	14.98	49	82.35	16 25	16.17	36	9.02	13 57	15.73	47	66.73	4 12
16.04	19	89.83	28 33	16.42	59	29.73	25 13	15.04	49 0	85.00	15 32	14.92	38	9.51	10 45	16.42	49	67.36	1 27
11.76	21	90.22	24 10	16.12	52 1	30.14	21 04	16.42	7	86.77	11 18	16.42	41	10.25	11 51	12.75	51	67.82	5 15
12.58	22	90.49	24 47	16.42?	6	31.49	24 57	16.09	10	87.39	19 25	16.04	42	10.40	12 04	13.67	54	68.54	2 26
13.53	27	91.84	26 46	14.90	7	31.66	22 09	16.42	11	87.79	17 02	16.17	42	10.45	19 24	14.90	59	69.67	7 19
16.42	28	91.92	27 34	15.83	7	31.82	24 44	14.55	12	88.07	19 25	16.33	47	11.84	12 18	12.75	48 2	70.45	5 30
16.33	31	92.64	29 13	11.35	11	32.84	28 24	16.42	13	88.24	14 51	15.91	49	12.24	11 52	15.25	2	70.57	7 18

25 prec. + 77 sec. — 8′ 21″.

Area 103.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ − ″		m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″
16.42	48 3	70.64	3 26	16.42	51 17	19.22	−2 17	16.42	48 11	72.65	4 30	13.28	50 50	12.44	7 40	15.86	48 0	69.89	15 46
16.42	6	71.60	7 21	15.65	17	19.23	3 31	16.33	12	73.04	0 11	15.12	51	12.84	3 32	15.86	0	69.89	14 23
14.92	9	72.16	3 24	16.42	18	19.53	7 54	15.34	14	73.55	9 16	16.42	53	13.13	8 03	16.42	3	70.66	13 36
15.12	10	72.61	0 19	16.33	22	20.49	5 15	15.65	21	75.35	9 04	16.42	54	13.38	0 34	16.12	4	71.00	14 25
15.60	15	73.71	8 35	15.60	24	20.90	2 24	13.87	23	75.73	5 19	13.87	55	13.74	5 23	15.57	9	72.36	19 21
15.06	18	74.46	2 13	15.25	26	21.60	7 19	16.33	29	77.31	4 21	12.58	51 2	15.53	6 06	16.17	17	74.33	16 33
15.20	21	75.14	1 40	15.06	30	22.41	1 42	16.42	31	77.66	6 42	16.33	3	15.83	4 16	16.42	19	74.78	15 06
13.30	24	75.96	3 47	13.67	36	24.11	6 36	16.04	33	78.13	2 50	16.42	5	16.17	5 40	16.04	25	76.15	18 41
16.42	30	77.53	2 41	16.42	43	25.86	3 47	14.84	42	80.45	4 25	16.42	6	16.62	5 44	14.23	25	76.29	12 36
16.33	32	77.99	0 22	15.81	48	26.97	0 10	15.99	44	81.05	3 51	16.42?	10	17.62	2 37	16.17	27	76.72	19 15
15.65	34	78.49	1 20	15.12	51	27.78	9 38	14.49	48	81.91	2 37	16.42?	12	17.92	0 17	10.45	28	77.10	14 22
14.84	35	78.84	3 44	16.42	53	28.24	7 13	9.96	52	83.10	1 35	15.60	17	19.25	3 06	14.69	29	77.33	10 31
14.92	43	80.83	5 02	15.91	52 0	30.01	6 04	16.17	54	83.41	6 55	16.42	18	19.61	7 35	15.04	36	79.08	18 33
15.73	44	81.12	2 20	16.33	3	30.79	4 29	14.16	54	83.42	9 58	15.23	21	20.18	9 37	14.84	37	79.21	16 20
14.78	45	81.14	0 27	13.68	4	31.05	3 48	16.17?	56	84.11	2 06	16.42	21	20.33	8 23	15.70	42	80.47	14 55
14.39	49	82.34	9 23	16.42	6	31.45	8 30	14.98	58	84.50	7 44	14.55	22	20.43	1 38	16.42	45	81.31	18 24
15.17	51	82.82	9 12	10.92	9	32.18	2 00	16.33	49 1	85.28	9 05	11.41	23	20.80	9 10	15.34	46	81.60	16 26
16.42	51	82.83	8 28	12.75	13	33.35	6 08	15.86	15	88.87	2 22	11.79	24	20.92	0 50	14.23	49	82.13	19 10
15.52	54	83.55	0 58	16.42	14	33.45	3 11	15.96	16	88.98	4 55	13.67	32	23.00	9 09	14.78	53	83.25	14 15
13.14	57	84.37	0 01	16.04	17	34.29	2 08	16.42	22	90.57	5 55	16.42	34	23.40	4 00	16.04	49 3	85.68	13 03
16.42	59	84.79	4 27	15.86	19	34.65	0 41	16.42	24	90.88	0 59	16.42	36	24.04	3 40	16.42	6	86.48	15 22
15.70	49 0	85.00	3 13	16.42	20	34.94	3 50	16.33?	24	90.91	6 34	16.42	37	24.22	9 38	16.42	8	86.90	16 31
15.57	4	86.08	2 42	15.31	22	35.46	4 47	14.05	27	91.71	8 28	15.04	38	24.57	5 44	14.39	8	86.96	18 22
15.57	14	88.52	3 49	16.42	22	35.46	9 27	14.78	28	91.90	5 36	15.91	44	25.91	9 20	16.42	8	87.04	10 50
15.12	14	88.56	8 58	14.98	22	35.54	6 28	13.87	31	92.85	7 00	15.25	45	26.18	0 56	16.42	9	87.18	15 57
11.84	25	91.13	2 14	12.75	24	35.93	5 45	15.06	35	93.76	4 29	11.70	47	26.73	3 10	16.17	12	87.92	12 18
16.42	29	92.26	4 13	15.60	32	37.97	−0 54	10.86	36	93.92	9 01	16.17	48	26.90	2 40	16.42	18	89.56	14 44
15.86	32	93.05	1 05	14.64	47 13	58.16	+5 22	15.86	37	94.34	8 46	11.87	53	28.37	7 22	16.42	18	89.62	11 24
16.04	37	94.34	3 45	16.42	13	58.28	7 06	15.60	50	97.52	8 36	12.48	55	28.63	6 23	15.47	19	89.69	17 34
15.44	40	94.94	5 50	16.42	16	59.01	2 40	14.05	51	97.63	9 08	16.12	55	28.69	3 49	13.87	19	89.86	18 06
15.57	41	95.35	4 38	16.04	19	59.83	3 57	15.06	52	97.92	4 15	15.99	56	29.08	4 55	16.12	23	90.70	15 30
14.69	43	95.64	8 52	16.33	20	59.94	7 42	15.73	53	98.20	2 12	14.98	57	29.31	8 57	16.42	24	90.92	17 10
14.23	57	99.21	7 33	15.99	21	60.33	8 05	8.41*	54	98.42	0 01	16.42	52 3	30.64	5 24	12.58	24	90.92	14 43
16.42	50 5	1.19	1 11	15.47	22	60.40	5 55	16.42	50 0	99.91	8 55	16.42	4	30.96	5 30	16.42	27	91.67	10 48
14.23	7	1.79	5 06	16.42	22	60.47	1 10	16.42	2	0.40	1 57	16.42	18	34.56	1 18	16.42	30	92.53	16 31
16.42	10	2.48	7 17	14.55	24	61.12	8 02	14.23	2	0.54	4 34	15.47	19	34.73	1 36	15.25	32	93.05	11 30
14.55	16	4.08	0 48	16.12	26	61.46	0 47	11.79	4	1.03	9 44	12.90	47 21	60.30	16 38	14.84	33	93.17	14 34
16.42	23	5.80	5 00	15.70	31	62.74	1 15	16.42	7	1.80	4 22	16.17	22	60.60	15 08	15.12	34	93.54	19 47
16.04	24	5.93	5 06	15.31	39	64.84	1 25	15.52	9	2.17	6 18	14.95	31	62.71	19 21	15.83	37	94.17	11 52
12.89	26	6.52	5 32	14.23	46	66.40	8 38	16.42	13	3.22	0 00	13.87	33	63.21	18 58	16.12	47	96.72	15 32
15.99	27	6.76	2 38	13.87	48	67.04	7 40	14.23	15	3.87	8 50	14.23	36	63.99	11 27	16.33	52	97.98	10 09
12.75	28	6.95	7 39	15.52	53	68.22	3 41	15.88	17	4.21	9 48	16.42	37	64.32	15 12	16.42	54	98.51	14 27
16.42	33	8.29	2 50	16.17	57	69.29	8 04	16.09	23	5.65	4 09	15.06	39	64.78	14 44	14.42	54	98.52	19 38
16.04	39	9.84	6 35	14.92	58	69.41	7 04	16.42	23	5.69	7 34	16.42	39	64.80	19 30	16.17	55	98.62	15 43
16.42	59	14.84	6 50	16.42	58	69.56	2 21	14.78	28	7.00	2 37	13.53	45	66.35	16 36	16.42	50 0	0.00	19 07
16.01	51 1	15.37	0 04	16.42	59	69.68	1 13	16.42	31	7.70	5 54	16.42	48	66.90	18 53	15.70	2	0.60	14 47
16.33	3	15.84	3 17	15.65	48 0	70.09	2 30	15.73	39	9.80	2 44	16.17	49	67.30	12 14	14.78	6	1.53	19 32
16.42	6	16.44	0 55	16.07	4	71.06	0 27	15.78	45	11.14	0 31	16.42	51	67.83	10 19	16.12	10	2.57	11 58
14.55	6	16.61	0 48	16.12?	9	72.35	7 24	15.70	45	11.26	5 06	14.78	54	68.46	12 50	14.39	13	3.28	14 53
16.42	17	19.22	5 43	15.99?	10	72.47	+7 22	15.06	48	11.88	2 41	15.04	57	69.31	18 23	14.78	13	3.30	10 51

25 prec. + 77 sec. — 8′ 21″.

601—650				651—700				701—750				751—800				801—850			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.42	50 18	4.40	12 37	15.99	52 20	34.90	15 41	16.42	49 31	92.64	20 07	16.42	51 35	23.81	21 29	16.42	48 49	82.31	37 30
15.70	24	5.99	14 05	15.70	21	35.24	10 41	15.34	34	93.48	24 59	15.20	38	24.38	25 11	16.42	58	84.40	39 04
11.52	25	6.26	12 44	16.33	24	36.05	14 27	12.58	35	93.68	24 53	15.55	38	24.46	20 08	15.25	49 2	85.40	36 55
13.43	28	6.98	16 44	14.39	25	36.25	18 21	15.65	41	95.25	27 37	12.90	46	26.60	27 14	15.06	2	85.60	36 56
16.42	35	8.69	17 39	16.42	25	36.28	12 43	15.78	43	95.68	26 21	16.42	47	26.72	25 36	15.57	7	86.71	35 29
16.09	36	9.10	10 22	13.87	26	36.55	18 21	15.20	44	95.88	26 44	16.42	48	26.99	23 36	11.44	7	86.77	34 41
16.09	39	9.79	15 36	15.57	29	37.13	13 39	16.42	44	95.94	28 55	15.78	49	27.24	24 40	16.42	7	86.83	34 16
15.12	44	11.00	16 29	15.25	29	37.22	14 41	13.14	45	96.25	29 11	14.75	50	27.50	21 53	16.12	8	86.88	32 15
13.67	46	11.48	18 57	15.17	30	37.45	16 19	16.42	47	96.72	21 47	15.73	55	28.85	25 18	14.05	8	86.97	31 20
16.42	47	11.67	18 01	16.42	47 13	58.26	24 02	15.65	49	97.18	26 41	14.49	59	29.68	21 39	15.12	14	88.46	39 52
16.33	47	11.75	10 09	14.39	16	58.96	25 03	15.65	56	99.11	28 50	14.64	59	29.82	21 53	11.64	19	89.78	39 58
16.12	50	12.47	10 17	13.94	18	59.56	27 52	15.99	58	99.59	26 27	15.06	52 0	29.98	21 12	14.98	21	90.27	35 44
16.42	59	14.75	17 00	14.55	24	60.95	20 30	16.42	50 3	0.71	22 37	15.31	0	30.00	26 34	14.23	25	91.17	31 36
16.42	51 0	14.96	15 21	16.42	25	61.32	22 42	15.04	6	1.52	24 15	12.10	0	30.08	21 24	15.44	25	91.27	34 08
16.42	0	14.96	10 07	14.92	25	61.37	21 32	16.42	8	2.08	27 38	14.23	1	30.24	23 44	12.75	26	91.47	30 48
13.87	1	15.36	11 29	15.01	26	61.43	29 24	16.42	12	2.93	22 10	15.99	4	31.10	27 24	16.42	31	92.67	33 08
16.42	9	17.25	17 21	15.83	26	61.52	23 33	14.78	15	3.71	26 09	16.42	6	31.49	27 33	16.09	34	93.48	31 08
16.17	11	17.64	13 26	15.78	32	62.94	21 16	16.42	15	3.75	23 53	14.84	7	31.63	23 31	12.75	43	95.73	32 37
16.42?	12	18.11	15 57	16.33	33	63.26	27 28	16.33	17	4.19	24 54	14.64	9	32.31	24 55	15.99	45	96.30	31 53
15.86	13	18.13	17 02	15.17	36	63.93	20 39	16.12	18	4.60	27 03	13.67	16	34.05	29 29	12.75	46	96.55	35 38
15.49	13	18.33	10 08	15.20	38	64.49	21 25	13.30	20	4.88	29 04	12.75	23	35.76	21 57	15.44	46	96.56	36 45
14.52	36	23.94	10 20	15.73	44	65.94	22 07	15.65	31	7.68	25 04	14.69	23	35.84	26 37	15.83	48	97.12	35 18
15.96	36	23.97	18 42	15.39	48	67.12	24 04	16.33	31	7.79	23 19	10.93	32	37.93	22 40	16.42	53	98.17	31 45
14.92	36	24.10	12 27	16.42	52	68.11	24 18	10.30	32	7.89	28 43	14.33	47 16	59.02	31 34	16.42	55	98.65	39 14
16.25	37	24.26	10 01	16.09	48 1	70.33	26 04	15.91	32	7.96	29 53	16.17	16	59.07	31 06	15.73	55	98.85	32 59
11.64	39	24.68	10 09	16.04	5	71.30	27 24	16.42	34	8.47	20 52	16.33	18	59.45	39 14	16.42	58	99.46	39 15
15.65	39	24.80	19 22	16.42	11	72.67	23 18	14.69	35	8.68	25 39	15.44	20	60.06	33 27	15.31	50 0	0.10	31 08
16.12	40	25.10	11 23	15.83	12	73.08	22 28	16.33	35	8.71	24 09	16.09	30	62.45	30 28	15.39	8	2.10	38 39
15.99	44	25.97	10 32	13.30	25	76.15	22 41	15.60	37	9.14	27 31	14.84	30	62.51	30 15	15.65	10	2.41	32 13
15.78	51	27.82	15 42	15.39	25	76.34	23 01	15.96	38	9.56	25 27	14.92	30	62.53	38 16	16.09	11	2.67	36 58
15.12	54	28.38	17 22	13.30	27	76.63	22 42	13.87	40	9.91	20 22	16.42	40	65.11	35 09	16.42	11	2.75	32 15
15.25	54	28.48	14 27	16.42	27	76.66	26 38	15.83	44	10.99	27 18	15.47	47	66.69	36 21	16.42	20	5.07	35 07
15.70	58	29.57	10 06	12.44	36	79.04	29 11	16.42	55	13.63	27 15	11.07	54	68.60	36 23	14.23	20	5.11	37 48
16.42	58	29.57	17 56	14.05	46	81.41	25 50	14.90	57	14.13	27 25	15.73	58	69.41	34 44	16.09	24	5.97	36 03
14.39	59	29.70	14 13	16.17	53	83.31	24 09	16.33	57	14.22	29 06	16.42	59	69.87	33 44	14.84	24	6.11	38 02
15.52	59	29.75	16 34	15.44	55	83.77	25 16	16.42	57	14.35	27 48	15.73	48 1	70.37	34 52	15.70	28	7.09	35 27
15.52	59	29.76	11 59	16.33	57	84.29	21 04	14.92	51 3	15.87	24 24	16.42	7	71.79	35 07	14.90	29	7.26	30 24
15.60	59	29.85	17 03	15.73	59	84.71	20 37	16.42	5	16.33	22 04	16.42	8	71.99	36 30	15.70	29	7.34	35 44
13.30	59	29.87	11 33	12.72	49 0	85.01	26 11	16.42	7	16.64	27 41	16.12	9	72.19	31 06	15.83	30	7.56	34 24
16.42	52 4	30.95	11 24	12.42	1	85.28	20 05	15.99	8	16.95	25 30	16.42	11	72.77	38 01	16.42	31	7.68	38 39
15.57	8	31.96	18 54	15.52	9	87.23	23 58	15.78	9	17.28	21 43	15.99	12	73.05	33 35	16.42	34	8.53	36 57
14.39	8	31.97	13 39	10.95	10	87.49	29 11	15.73	11	17.70	29 05	15.65	13	73.31	37 50	15.44	37	9.28	31 54
15.73	9	32.36	18 11	16.42	12	88.00	20 33	16.17	12	17.92	29 29	16.17	15	73.83	36 38	14.78	38	9.57	37 56
15.39	13	33.15	15 09	16.17	14	88.46	23 54	15.70	12	17.95	29 49	12.75	21	75.32	33 54	15.91	39	9.68	37 18
12.75	13	33.17	17 27	16.42	15	88.66	25 32	16.42	13	18.23	20 58	15.12	27	76.69	39 36	16.09	39	9.84	36 22
12.41	13	33.25	12 22	16.33	15	88.68	25 57	13.87	14	18.62	23 12	15.17	29	77.35	34 27	16.42	40	10.08	36 50
16.33	13	33.34	16 05	16.42	15	88.78	25 51	15.99	22	20.43	26 57	16.42	41	80.15	34 32	15.91	40	10.08	33 25
16.42	16	33.95	15 27	15.06	19	89.87	23 08	12.41	26	21.62	22 53	15.47	41	80.17	39 51	13.87	41	10.19	31 13
15.68	18	34.46	19 31	16.42	28	91.95	22 39	13.87	27	21.70	25 26	16.42	47	81.72	37 47	16.04	48	11.88	38 13
15.04	19	34.87	13 47	15.99	28	92.11	21 55	15.06	29	22.22	20 08	16.42	48	82.12	37 16	15.20	48	11.95	34 34

25 prec. + 77 sec. — 8′ 21″.

11^{h} Area 103. $+0^{\circ}$

851—860				861—870				871—880				881—889			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.42	50 48	11.96	33 43	16.42	51 13	18.22	36 14	11.07	51 42	25.44	38 12	14.39	52 5	31.26	34 21
13.30	49	12.36	35 59	16.17	16	18.89	36 42	15.06	42	25.48	37 59	16.42	5	31.28	33 43
16.42	53	13.32	39 39	16.17	21	20.21	37 38	14.39	42	25.48	38 39	15.04	9	32.35	37 34
15.70	56	14.06	38 16	16.42	21	20.31	37 13	16.09	44	26.08	36 46	15.39	11	32.67	38 00
13.53	57	14.24	31 11	16.12	25	21.22	30 15	16.42	48	26.88	38 32	16.42	13	33.25	35 01
15.83	51 2	15.37	30 36	14.23	28	21.93	33 41	15.70	50	27.61	36 28	16.42	17	34.35	37 19
16.42	2	15.49	32 40	15.25	28	22.06	30 44	16.42	56	28.93	37 46	15.65	20	34.95	32 46
15.39	4	16.03	32 30	16.42	30	22.50	34 36	15.91	57	29.22	39 54	13.14	22	35.62	32 53
13.67	4	16.11	31 15	13.53	33	23.35	36 00	15.20	59	29.78	38 34	14.90	27	36.65	34 38
15.60	12	18.03	30 45	16.42	39	24.83	37 44	15.44	52 3	30.67	38 14				

25 prec. + 77 sec. — 8′ 21″.

12^{h} Area 104. Centre for 1900: $12^{h}\ 38^{m}\ 0^{\circ}\ 0'$. -0°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.67	35 21	60.32	39 46	16.19	37 0	85.02	31 06	14.84	38 37	9.18	37 58	15.29	39 42	25.57	37 44	13.08	35 59	69.68	27 44
16.57	36	63.92	35 32	16.41	3	85.66	35 53	14.53	38	9.54	38 32	15.93	45	26.18	36 03	16.66	59	69.69	24 49
16.66	38	64.60	35 16	14.53	7	86.86	36 47	16.57	41	10.23	35 33	14.68	46	26.39	33 54	14.93	36 1	70.24	22 50
16.66	39	64.66	34 14	15.58	8	86.95	30 12	16.66	45	11.37	31 27	14.93	46	26.61	35 19	15.29	6	71.53	28 54
16.31	39	64.66	38 42	15.14	9	87.24	39 18	11.64	48	12.06	31 50	15.71	56	29.08	39 14	13.46	7	71.84	23 59
15.61	42	65.56	36 51	16.25	15	88.83	35 54	12.66	49	12.14	35 41	11.60	56	29.11	37 25	15.77	9	72.23	25 44
15.08	44	65.93	31 44	16.09	16	89.12	31 47	10.96	51	12.72	31 31	16.57	40 2	30.43	38 08	15.45	14	73.50	25 01
14.84	44	66.06	31 25	14.84	22	90.60	34 38	14.05	52	13.00	30 37	16.66	2	30.59	31 44	16.41	21	75.35	21 01
15.77	51	67.64	39 49	14.99	34	93.41	34 47	13.21	53	13.22	33 01	15.87	4	30.93	31 19	16.31	23	75.72	20 17
16.57	53	68.23	37 05	16.66	34	93.61	33 06	16.66	53	13.22	38 48	16.38	5	31.33	30 07	15.14	26	76.42	24 47
13.56	36 1	70.35	36 01	14.68	36	94.02	39 26	15.83	54	13.60	36 32	16.41	12	32.95	33 24	16.35	27	76.80	24 21
16.57	3	70.67	30 33	15.83	47	96.76	35 35	16.66	55	13.69	38 31	15.14	36	38.93	39 14	13.89	33	78.23	20 44
16.66	4	71.09	33 24	13.79	54	98.50	34 21	13.22	39 0	15.08	35 39	15.61	35 21	60.31	27 38	12.73	34	78.49	24 03
15.51	5	71.33	38 34	15.45	56	98.99	31 46	14.37	3	15.80	39 53	12.70	22	60.41	23 14	10.87	42	80.38	22 57
13.38	8	71.91	35 35	15.29	38 3	0.63	36 47	14.68	4	15.90	38 24	15.61	25	61.19	29 25	15.55	44	80.94	24 59
13.21	15	73.70	34 12	16.57	7	1.78	30 23	14.99	4	16.08	38 13	14.68	25	61.29	26 12	16.15	47	81.77	24 39
16.66	22	75.52	35 11	15.61	8	1.96	36 50	14.53	4	16.10	37 49	16.19	29	62.28	26 28	12.80	48	82.10	26 06
14.84	23	75.70	39 29	16.66	9	2.14	37 03	16.66	6	16.42	33 22	13.89	30	62.40	29 30	15.87	49	82.20	26 42
16.41	34	78.48	32 32	13.38	12	2.97	32 12	16.66	8	16.90	36 55	16.66	30	62.58	20 52	14.53	51	82.77	24 36
14.53	36	78.90	33 49	12.83	18	4.41	38 39	12.20	8	16.91	30 12	14.37	33	63.21	29 10	14.68	37 10	87.54	29 05
15.87	36	78.93	36 33	14.99	20	5.06	36 17	15.87	10	17.49	33 04	15.45	36	64.06	23 03	15.26	14	88.62	29 37
13.31	44	80.97	37 09	16.41	22	5.40	30 01	13.72	13	18.19	35 41	16.15	37	64.17	23 42	15.71	17	89.35	27 11
16.57	46	81.47	34 14	13.21	23	5.86	37 44	14.05	19	19.63	34 57	16.66	40	64.90	22 20	11.63	18	89.44	26 41
16.09	48	81.94	31 37	13.56	24	5.95	39 40	14.37	21	20.28	36 29	12.80	41	65.17	22 50	16.66	20	90.10	25 37
16.66	49	82.29	39 40	14.84	25	6.35	38 47	16.66	25	21.37	35 27	16.57	42	65.46	27 58	16.41	34	93.61	21 15
12.04	49	82.35	35 03	16.66	26	6.53	37 55	12.97	27	21.69	31 41	16.66	44	65.96	27 38	15.83	35	93.83	27 30
16.25	53	83.36	32 55	10.74	26	6.55	32 54	14.68	28	22.03	33 38	15.08	45	66.36	24 29	14.99	40	95.08	24 59
15.45	56	84.05	39 41	15.05	26	6.59	36 03	16.41	29	22.25	35 48	15.29	45	66.36	29 57	15 90	42	95.53	29 57
10.94 :	57	84.28	31 30	12.54	28	7.07	32 24	16.03	30	22.38	36 55	16.66	46	66.46	21 26	16.66	44	96.12	25 09
16.41	58	84.48	35 23	15.87	30	7.42	38 02	16.66	36	23.91	35 31	16.57	56	68.92	23 19	12.89	46	96.47	21 06

25 prec. + 77 sec. — 8′ 14″.

Area 104.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.37	37 50	97.41	26 12	16.57	40 36	38.93	25 58	16.25	37 42	95.51	17 46	14.93	35 38	64.46	6 58	16.66	38 7	1.77	7 51
13.72	50	97.49	28 48	16.41	38	39.49	21 36	14.37	43	95.63	18 38	16.35	41	65.31	6 39	16.66	9	2.17	7 45
13.72	50	97.62	28 05	16.25	39	39.79	25 24	16.09	43	95.72	11 51	14.53	43	65.74	9 13	14.84	11	2.83	5 42
16.57	51	97.67	29 51	16.41	35 23	60.78	15 50	10.85	49	97.32	13 04	14.99	49	67.24	8 21	12.30	13	3.18	9 53
16.66	58	99.50	20 48	15.71	28	61.89	10 36	16.66	54	98.52	16 13	16.31	51	67.75	0 46	15.51	15	3.76	2 46
14.53	38 0	0.10	24 24	14.05	29	62.17	17 04	14.99	38 2	0.57	17 11	10.28*	56	69.03	4 15	15.51	20	4.91	7 39
16.66	5	1.29	29 57	14.37	32	63.01	11 14	16.66	17	4.28	19 55	16.31	36 1	70.31	2 49	15.64	22	5.53	9 27
15.45	10	2.38	23 52	13.89	32	63.03	13 49	16.03	21	5.31	14 58	12.77	2	70.47	0 23	16.03	25	6.13	4 13
14.53	12	2.98	28 37	15.99	34	63.46	18 00	16.66	30	7.58	16 40	15.93	3	70.78	6 40	16.57	28	7.04	6 14
13.31	17	4.15	28 13	15.93	43	65.78	12 34	15.67	38	9.41	16 16	15.29	4	70.94	3 33	15.61	29	7.14	7 31
13.21	19	4.67	27 24	15.83	45	66.26	12 27	13.89	42	10.47	15 19	16.66	11	72.77	9 07	16.31	32	8.12	4 01
15.55	20	5.04	22 43	13.31	46	66.46	16 28	15.29	43	10.72	10 53	13.38	11	72.84	5 11	15.45	35	8.74	8 26
12.93	23	5.74	24 45	16.66	50	67.40	13 37	13.56	43	10.79	14 30	16.66	14	73.39	8 47	15.51	38	9.53	3 52
15.14	24	5.97	27 28	14.68	53	68.30	13 32	15.71	55	13.63	15 39	15.67	17	74.29	8 43	15.83:	39	9.65	1 38
14.78	27	6.76	29 44	14.68	36 4	70.95	17 03	13.38	39 2	15.39	17 36	15.14	25	76.28	6 32	14.53	40	9.92	4 16
15.14	30	7.54	24 49	11.27	5	71.22	11 00	15.93	7	16.79	15 32	15.39	31	77.75	7 34	13.46	46	11.50	2 00
16.19	31	7.66	28 29	16.57	8	72.04	10 18	14.99	10	17.51	14 27	15.08	32	77.88	7 54	15.77	51	12.73	0 44
16.41	33	8.33	25 28	14.99	9	72.25	11 01	16.66	15	18.79	10 36	16.66	32	78.06	4 36	11.28	52	12.98	2 25
16.66	34	8.44	24 19	12.76	10	72.44	10 52	15.55	17	19.19	17 15	15.08	43	80.79	7 33	16.31	53	13.23	5 41
16.66	36	9.03	25 30	14.68	11	72.85	12 52	16.57	20	19.96	16 21	16.35	44	81.04	6 52	14.53	54	13.50	5 38
16.57	37	9.37	21 35	10.84	16	74.07	10 02	15.14	22	20.48	15 30	16.19?	44	81.07	5 03	16.41	58	14.41	0 31
15.99	38	9.56	20 22	14.99	17	74.33	13 02	16.57	24	21.08	16 19	15.99	44	81.11	8 37	15.08	58	14.61	4 15
15.55	40	9.97	23 13	15.99	27	76.65	12 13	13.26	26	21.52	10 20	14.99	48	81.92	4 52	14.53	59	14.83	9 29
11.87	43	10.74	20 55	16.35	30	77.53	13 31	15.67	28	21.88	18 27	16.57	54	83.45	3 59	16.15	39 1	15.35	5 51
15.14	45	11.24	21 04	15.93	30	77.62	16 14	14.21	31	22.86	13 22	15.36	55	83.71	8 41	15.17	2	15.49	9 44
15.39	50	12.53	27 40	15.39	33	78.18	19 30	13.89	33	23.27	13 57	14.05	56	83.95	2 01	16.19	4	16.08	6 59
14.90	51	12.63	29 55	13.31	37	79.13	19 23	15.17	35	23.77	10 06	16.57	59	84.67	1 22	16.09	6	16.62	6 02
14.53	51	12.72	23 43	16.66	42	80.48	18 09	16.66	36	23.98	19 07	14.99	37 1	85.32	2 49	14.75	7	16.79	8 17
12.18	58	14.42	28 34	15.29	42	80.57	15 27	14.68	43	25.63	17 51	16.66	4	85.98	3 40	15.67	10	17.57	3 23
12.23	59	14.66	24 33	16.66	46	81.44	17 15	16.19	51	27.75	18 46	15.29	4	86.03	7 45	16.22	14	18.40	9 29
16.41	59	14.86	23 59	15.61	52	82.98	17 43	15.14	51	27.82	18 05	14.78	4	86.06	8 29	15.33	15	18.77	9 55
15.74	39 2	15.41	29 37	14.99	53	83.26	15 52	12.46	54	28.56	12 34	15.29	7	86.65	4 27	16.41	17	19.14	9 03
15.29	11	17.80	22 20	16.35	53	83.27	18 52	15.45	55	28.63	11 24	15.87	12	88.07	1 29	12.34	18	19.49	9 27
14.99	19	19.80	25 46	14.84	37 1	85.27	12 57	15.87	40 1	30.19	17 02	13.38	13	88.26	7 33	16.57	20	20.09	5 39
14.53	26	21.45	24 51	13.19	3	85.82	14 04	14.84	1	30.24	14 31	11.68	14	88.42	0 14	16.03	26	21.49	9 49
16.09	26	21.50	26 38	16.66	7	86.86	16 41	16.49	5	31.18	10 15	14.90	17	89.32	7 04	15.20	28	21.89	3 23
13.56	30	22.56	21 59	15.61	9	87.33	18 23	15.99	9	32.14	11 38	11.40	20	89.94	1 22	16.66	37	24.36	4 46
15.83	32	22.98	20 09	16.41	11	87.68	12 54	14.21	32	38.03	11 41	16.03	23	90.71	5 38	16.66	39	24.67	5 09
15.77	39	24.75	23 57	14.53	15	88.87	13 38	14.99	34	38.50	17 57	15.67	26	91.49	8 45	16.66	39	24.77	5 26
14.21	46	26.62	29 34	13.56	22	90.46	18 34	16.66	34	38.58	15 47	16.35	29	92.27	3 34	15.14	40	25.00	8 25
14.99	54	28.52	26 35	16.66	22	90.57	12 06	14.53	35 20	60.08	8 53	16.41	31	92.68	1 35	16.66	46	26.53	3 39
14.68	58	29.56	27 30	15.61	23	90.86	18 05	16.35	23	60.80	7 38	16.66	40	95.06	3 23	16.28	49	27.23	0 02
15.93	40 2	30.46	28 18	15.23	26	91.44	16 20	14.68	27	61.77	3 09	15.55	41	95.13	3 33	15.93	49	27.34	2 55
15.14	3	30.70	22 11	15.83	27	91.68	12 53	14.68	29	62.26	9 19	16.66	45	96.22	4 25	16.66	51	27.82	1 27
15.61	8	31.93	22 29	16.49	33	93.37	19 49	15.99	29	62.35	3 07	16.57	52	98.08	0 18	15.71	53	28.24	7 18
16.03	17	34.30	28 59	11.26	37	94.32	18 28	15.45	30	62.38	5 06	16.19	56	98.95	2 49	14.37	55	28.76	4 00
14.53	20	34.90	28 22	15.39	37	94.34	11 38	16.57	30	62.47	5 44	14.53	38 0	0.00	7 33	14.84	56	29.03	4 01
14.53	25	36.31	23 29	15.77	38	94.41	15 36	15.51	30	62.56	6 29	15.61	2	0.38	1 59	16.41	40 2	30.59	2 05
13.89	30	37.52	21 13	15.29	39	94.77	17 21	14.37	35	63.82	9 32	13.72	5	1.26	9 37	15.08	3	30.75	6 33
14.68	33	38.24	25 55	16.41	41	95.35	16 50	12.52	36	64.08	4 10	13.56	7	1.67	0 28	16.41	6	31.61	9 31

25 prec. + 77 sec. — 8′ 14″.

401—450				451—500				501—550				551—600				601—650			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″
16.57	40 12	32.96	−0 23	16.66	37 31	92.73	4 28	16.57	40 2	30.51	2 51	16.41	37 26	91.55	12 05	16.57	40 16	34.03	18 48
16.66	36	39.02	2 46	16.66	32	93.01	1 49	16.03	8	32.05	2 19	16.66	27	91.76	15 34	15.71	18	34.61	17 59
16.57	38	39.61	3 32	12.56	38	94.42	7 22	10.98	12	33.11	1 00	16.31	31	92.81	11 19	14.68	19	34.66	13 54
15.61	39	39.85	−2 16	12.45	45	96.16	7 04	12.60	13	33.20	0 24	15.87	31	92.84	12 45	16.31	20	34.91	11 15
15.51	35 21	60.19	+2 29	15.14	45	96.19	8 35	13.72	13	33.32	0 42	13.38	32	93.07	12 40	14.05	20	35.01	19 21
16.66	30	62.50	8 26	12.52	46	96.60	0 48	15.83	14	33.52	7 52	16.25	36	94.06	15 06	15.39	22	35.45	10 57
16.66	33	63.21	4 58	16.35	47	96.68	4 05	15.26	15	33.63	9 31	16.66	40	94.89	18 59	15.67	26	36.41	16 14
13.34	36	64.01	0 03	15.14	48	97.02	3 27	16.31	20	34.88	7 11	15.23	40	94.94	10 31	16.35	30	37.61	12 11
16.35	43	65.70	0 05	16.66	56	98.98	1 14	neb	24	35.95	0 32	15.45	40	95.01	15 02	15.77	36	38.88	13 17
15.77	53	68.15	2 29	13.21	56	99.05	4 32	14.15	33	38.19	0 04	14.53	49	97.37	12 08	15.45	35 24	61.00	22 25
16.25	54	68.47	9 02	9.78*	59	99.67	0 32	15.61	34	38.61	9 38	14.21	52	98.12	14 29	16.35	26	61.40	22 08
15.93	56	68.90	8 09	16.66	59	99.75	6 36	14.37	35 20	60.02	16 08	16.57	57	99.19	15 49	16.66	34	63.48	28 57
15.29	57	69.13	7 26	16.31	38 0	0.10	8 38	16.57	21	60.22	10 00	13.56	58	99.42	12 16	16.31	38	64.43	26 22
16.19	36 5	71.14	0 58	16.66	4	1.06	6 23	15.80	21	60.32	10 07	12.77	38 7	1.77	19 48	16.66	41	65.32	20 32
16.66	10	72.45	1 51	15.99	6	1.61	5 06	16.66	25	61.29	17 34	15.67	8	1.95	15 10	15.36	48	66.91	27 18
16.35	15	73.74	5 26	16.19	9	2.25	2 15	14.84	27	61.66	11 12	15.77	13	3.36	16 44	13.38	59	69.86	20 04
15.55	16	73.93	3 22	14.84	13	3.35	2 50	15.45	28	61.94	17 43	15.20	13	3.36	15 49	15.77	36 0	70.00	26 23
15.14	18	74.58	3 37	15.87	13	3.35	9 17	14.68	29	62.18	11 17	16.66	17	4.36	16 44	14.99	4	70.92	21 40
15.29	21	75.18	6 16	16.41	14	3.40	5 47	16.66	32	62.90	19 56	15.93	21	5.14	17 43	16.66	5	71.21	29 21
16.41	22	75.59	7 57	14.68	15	3.74	2 57	16.66	33	63.20	12 45	16.66	24	6.05	18 17	16.66	8	72.04	21 36
16.57	28	76.99	5 48	15.99	18	4.46	3 14	15.36	35	63.74	13 52	16.66	34	8.42	17 23	16.57	10	72.41	25 40
16.09	28	77.00	2 28	14.21	26	6.55	6 05	16.03	44	65.97	17 25	16.41	38	9.44	11 23	14.68	16	74.09	25 27
15.45	29	77.17	1 41	15.67	31	7.83	0 52	16.66	44	66.04	14 52	13.89	41	10.27	14 38	12.73	21	75.23	29 14
16.41	31	77.65	1 00	16.66	33	8.32	8 23	13.38	45	66.15	15 10	16.66	42	10.44	13 14	16.57	22	75.59	27 12
12.56	31	77.66	1 20	16.66	37	9.13	5 28	15.55	49	67.16	13 09	13.21	47	11.75	12 47	14.93	23	75.74	23 58
16.66	32	77.92	1 00	14.37	38	9.54	5 22	13.38	51	67.83	18 59	13.38	54	13.49	17 33	16.66	24	76.06	23 49
12.34	33	78.20	0 28	14.99	42	10.46	5 11	15.45	55	68.64	19 43	16.35	58	14.59	10 40	16.19	29	77.20	25 47
13.11	34	78.49	6 29	15.14	43	10.74	4 25	14.21	36 0	70.09	10 28	16.31	39 1	15.19	11 33	15.08	31	77.69	25 17
14.68	36	79.08	9 45	16.57	48	11.97	0 01	15.51	1	70.25	17 45	16.41	9	17.33	16 59	15.45	31	77.75	21 55
13.72	43	80.75	7 03	14.21	55	13.81	8 21	15.20	13	73.20	10 06	16.66	10	17.59	13 58	15.45	32	77.89	25 48
16.35	46	81.46	0 28	15.14	57	14.25	9 11	14.21	18	74.43	17 33	16.19	17	19.21	10 14	15.23	32	78.06	25 39
16.31	49	82.36	1 59	15.29	39 4	15.90	9 14	16.66	24	76.11	13 25	15.51	18	19.39	17 53	14.78	33	78.27	22 23
14.99	50	82.45	7 55	11.60	9	17.36	5 16	15.99	28	76.97	16 47	13.21	29	22.26	14 49	14.99	34	78.59	24 59
16.66	50	82.50	1 37	14.68	13	18.27	1 54	16.66	29	77.16	19 03	16.35	30	22.49	12 25	13.56	38	79.54	28 41
16.66	53	83.17	9 57	14.99	16	19.07	2 35	14.21	34	78.57	12 59	9.70	32	22.95	10 24	15.05	40	79.89	24 01
15.99	59	84.69	2 37	16.41	22	20.39	5 38	14.59	35	78.86	15 21	16.31	33	23.23	11 11	16.66	44	80.95	22 37
13.22	37 3	85.63	8 49	15.93	24	20.88	1 02	13.22	42	80.45	19 18	15.23	35	23.82	13 15	16.25	48	82.02	28 41
15.20	3	85.71	8 58	14.68	24	21.09	2 33	15.29	42	80.51	14 14	16.66	36	24.06	18 29	13.21	49	82.26	27 40
11.68	5	86.25	2 42	16.66	25	21.19	2 50	15.67	43	80.68	17 30	16.57	39	24.81	12 06	12.99	49	82.32	22 06
15.45	7	86.84	8 07	12.34	26	21.49	6 58	10.78	49	82.34	10 04	15.87	41	25.33	14 03	16.66	53	83.22	23 17
15.87	8	86.89	3 17	16.57	27	21.67	2 15	14.84	50	82.38	15 49	15.87	44	26.03	18 01	13.21	53	83.34	26 56
16.66	10	87.45	7 39	15.87	29	22.27	1 11	16.57	50	82.55	18 03	16.09	46	26.46	12 23	16.31	59	84.75	27 32
15.77	13	88.15	7 33	15.93	36	24.03	8 22	15.55	54	83.51	11 25	16.31	47	26.64	17 05	14.68	37 5	86.15	27 26
13.21	13	88.16	0 26	15.29	38	24.54	4 28	15.45	58	84.52	13 25	14.99	48	27.00	16 31	16.35	6	86.43	26 56
15.36	13	88.34	6 10	16.57	39	24.63	2 01	16.66	58	84.62	13 48	15.61	40 1	30.21	13 23	13.34	10	87.40	24 56
16.25	16	88.95	4 56	16.66	46	26.45	5 39	12.89	37 3	85.65	16 48	13.72	2	30.52	14 47	13.38	11	87.72	27 54
16.66	22	90.62	4 38	16.41	59	29.83	3 16	8.29*	10	87.52	14 23	16.35	10	32.53	15 35	14.37	18	89.40	20 49
13.72	23	90.82	0 28	16.66	40 0	30.01	3 29	12.94	14	88.37	14 58	11.61	10	32.55	16 13	neb	25	91.22	28 01
15.14	26	91.62	4 19	16.15	1	30.23	7 01	16.66	16	89.10	13 33	16.66	13	33.18	10 08	13.69	27	91.85	20 04
12.93	30	92.46	+9 43	13.89ne	1	30.26	5 05	13.38	23	90.74	12 09	15.77	13	33.21	10 35	12.99	31	92.80	25 42

25 prec. + 77 sec. — 8′ 14″

651—690				691—730				731—770				771—810				811—830			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.68	37 33	93.32	26 28	16.41	39 9	17.34	23 02	16.35	36 6	71.51	32 31	16.19	38 7	1.63	39 06	13.38	39 52	28.02	31 39
14.68	34	93.55	26 33	16.25	10	17.59	26 21	16.66	12	73.12	39 27	13.34	7	1.69	37 22	15.83	53	28.34	38 45
13.22	41	95.19	29 05	16.31	11	17.84	24 21	14.53	19	74.70	35 25	15.36	8	2.00	33 39	12.66	56	28.89	36 20
9.33	41	95.21	20 44	16.57	15	18.85	29 42	16.66	20	74.91	38 39	16.19	9	2.16	31 47	15.93	40 1	30.22	37 06
16.66	42	95.51	25 54	15.14	16	19.04	27 18	16.03	21	75.35	39 46	15.36	10	2.38	31 43	15.39	2	30.40	32 15
16.66	44	96.00	26 32	14.53	19	19.63	26 12	15.87	23	75.67	31 57	13.56	22	5.53	37 08	16.41	3	30.82	36 12
16.41	45	96.26	21 36	15.29	20	19.96	22 02	14.37	25	76.30	36 31	16.35	23	5.67	34 20	14.37	5	31.24	38 54
16.66	47	96.68	25 30	15.14	27	21.74	21 48	13.37	26	76.40	32 24	14.84	26	6.43	34 48	13.21	8	32.02	34 48
16.66	47	96.81	24 11	16.66	33	23.15	28 16	15.67	27	76.86	34 11	16.41	27	6.76	34 50	15.77	12	32.89	36 11
16.66	49	97.30	26 10	15.14	34	23.58	28 12	14.53	30	77.52	37 22	16.66	37	9.26	36 44	11.56	12	33.09	34 21
14.21	50	97.56	29 33	15.14	51	27.63	22 46	16.66	32	77.91	38 33	14.68	38	9.60	31 53	16.09	15	33.68	37 51
16.09	51	97.87	29 05	14.68	53	28.15	24 31	15.45	34	78.58	31 23	15.29	43	10.82	37 02	16.66	17	34.13	38 40
15.39	56	99.09	29 15	13.21	53	28.35	22 55	15.55	36	78.97	32 16	16.66	45	11.25	38 26	16.66	27	36.86	35 02
15.08	57	99.27	28 40	13.06	59	29.81	26 24	16.57	37	79.26	32 09	16.66	46	11.47	38 18	16.66	29	37.30	33 27
16.41	59	99.64	26 18	16.66	40 5	31.20	29 03	16.35	45	81.20	33 02	14.05	48	11.93	32 55	16.66	30	37.41	36 58
13.21	38 3	0.78	26 41	16.66	6	31.59	28 49	16.41	45	81.30	37 55	15.77	51	12.80	32 49	16.15	31	37.81	32 57
16.15	4	0.92	22 23	16.66	7	31.85	26 58	14.21	47	81.67	38 24	15.55	51	12.86	30 10	14.84	32	38.02	34 46
13.21	7	1.85	23 59	16.19	8	32.02	29 29	16.66	49	82.25	31 08	16.57	53	13.35	35 48	16.66	34	38.62	37 27
11.15	10	2.43	20 35	16.66	9	32.33	21 07	14.05	56	84.04	37 06	16.09	58	14.50	38 54	14.84	35	38.69	32 23
16.66	13	3.36	23 12	11.71	9	32.33	24 21	16.41	37 3	85.81	39 08	16.66	39 6	16.52	38 47	15.14	37	39.24	39 41
16.41	17	4.24	27 44	12.00	14	33.45	22 39	15.14	7	86.82	33 40	13.72	7	16.82	36 25				
15.67	17	4.34	21 20	15.87	17	34.14	28 48	14.90	10	87.38	31 57	15.87	8	17.03	36 05				
14.21	21	5.31	26 34	13.38	20	35.01	20 58	16.41	12	87.80	37 59	15.39	9	17.18	39 06				
15.83	24	6.02	22 52	16.15	20	35.11	20 20	15.23	12	87.90	30 42	12.89	9	17.23	39 33				
14.53	27	6.73	23 35	16.66	24	35.96	26 56	16.35	13	88.30	34 58	16.66	11	17.78	31 23				
16.66	31	7.71	20 23	16.66	27	36.86	22 13	16.25	14	88.51	34 17	15.23	13	18.28	37 00				
13.89	32	8.10	23 07	16.57	30	37.50	24 01	13.34	23	90.70	36 52	12.55	13	18.30	36 33				
16.19	36	8.91	27 56	16.09	31	37.68	27 20	16.19	23	90.80	33 45	15.45	14	18.51	38 15				
15.87	41	10.30	21 26	16.09	39	39.69	26 42	13.34	28	92.10	33 44	14.05	14	18.53	30 53				
15.51	44	11.08	29 01	16.66	35 21	60.34	34 15	15.87	31	92.67	32 39	15.14	18	19.49	33 39				
15.14	47	11.68	27 29	16.66	25	61.27	39 36	14.68	40	95.10	37 49	16.35	25	21.16	38 47				
16.25	52	13.09	26 47	15.51	26	61.45	31 02	16.35	42	95.62	34 19	14.99	29	22.32	39 49				
15.23	54	13.39	23 30	16.19	27	61.74	39 11	14.68	44	95.92	36 30	14.99	33	23.27	32 09				
15.23	54	13.61	22 53	13.56	29	62.23	38 09	15.14	49	97.32	37 40	14.37	35	23.72	36 25				
16.57	55	13.84	28 18	12.30	45	66.25	33 09	16.35	52	97.98	38 38	15.67	47	26.67	35 16				
13.21	59	14.70	21 36	16.66	45	66.34	38 11	16.03	53	98.37	38 25	16.09	47	26.78	32 10				
16.57	39 2	15.38	27 00	14.90	57	69.21	39 00	14.21	54	98.61	35 16	16.31	48	26.91	35 16				
15.99	3	15.76	27 11	14.37	57	69.35	39 27	11.21	38 2	0.53	32 55	15.93	50	27.46	34 04				
16.66	6	16.41	24 40	13.72	36 0	70.12	36 15	16.15	3	0.65	35 16	15.51	50	27.53	30 12				
14.68	6	16.55	23 33	13.05	6	71.44	32 17	10.08	3	0.78	32 45	16.15	51	27.65	31 04				

25 prec. + 77 sec. — 8′ 14″.

Area 105. Centre for 1900: $13^h\ 33^m$ — 0° 10′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
12.59	30 6	56.52	40 11	10.36	33 7	1.83	46 44	14.15	30 51	67.69	34 32	16.50	33 20	5.09	36 18	15.68	30 21	60.14	20 55
16.41	7	56.84	47 40	16.50	14	3.41	44 22	16.50	52	68.07	30 13	15.19	24	6.12	35 24	15.88	31	62.79	24 32
15.68	8	57.11	47 10	16.50	24	6.04	47 32	16.41	53	68.30	32 48	16.25	27	6.86	37 07	15.45	32	62.93	20 14
13.74	9	57.17	44 45	13.30	24	6.05	40 49	14.34	58	69.46	30 04	15.53	33	8.22	35 04	14.29	36	64.10	20 47
14.56	13	58.32	40 30	14.91	32	7.97	45 44	15.82	58	69.47	37 27	12.36	34	8.60	36 35	10.00	45	66.21	27 10
16.50	18	59.42	44 19	9.84	34	8.51	43 41	15.39	31 0	69.92	32 51	14.83	35	8.75	37 59	16.50	52	67.89	23 57
13.45	28	61.88	44 40	13.88	39	9.75	45 54	15.31	0	70.03	31 18	13.74	37	9.30	30 56	16.50	52	68.08	24 35
14.56	28	61.95	49 46	16.19	40	9.94	43 58	15.25	2	70.43	38 57	16.41	39	9.64	36 46	15.82	54	68.60	29 14
15.08	31	62.70	40 10	15.74	42	10.52	46 37	15.91	4	70.96	38 33	15.82	41	10.14	39 02	16.50	55	68.79	24 31
15.97	31	62.77	48 02	15.59	48	12.12	46 38	16.50	10	72.57	30 29	13.30	41	10.24	38 00	16.50	56	69.05	23 04
15.97	33	63.17	41 05	14.56	49	12.29	49 39	12.88	13	73.33	32 03	16.05	48	12.11	31 08	16.50	57	69.30	25 36
16.19	36	63.98	43 52	14.56	56	13.98	47 55	15.91	16	73.95	37 35	15.03	51	12.74	34 35	15.53	31 5	71.36	23 09
16.50	40	65.07	44 25	14.15	34 5	16.31	46 39	15.53	22	75.54	35 17	15.19	56	14.00	37 33	16.19	6	71.56	24 19
16.41	51	67.67	46 16	16.50	14	18.59	46 12	14.97	24	76.09	35 49	15.97	57	14.22	34 41	7.34*	8	72.05	25 06
14.97	52	68.03	45 32	14.29	21	20.37	40 37	16.50	25	76.13	34 58	11.82	59	14.73	36 32	16.50	9	72.16	26 29
16.50	53	68.14	45 00	9.69	27	21.84	42 59	16.50	35	78.70	36 38	16.50	34 3	15.81	32 49	12.12	11	72.63	23 33
13.03	59	69.84	47 57	14.83	32	22.96	46 21	14.15	42	80.52	34 49	15.88	4	15.91	38 25	16.25	13	73.17	23 07
11.78	31 1	70.26	40 55	16.50	38	24.48	43 36	13.74	42	80.52	35 48	15.25	10	17.48	32 30	16.05	15	73.63	22 37
15.39	3	70.87	40 53	16.25	42	25.55	46 14	16.50	42	80.54	30 11	16.11	20	19.89	34 31	16.19	15	73.83	28 07
14.97	4	70.98	42 48	15.19	50	27.44	43 47	16.50	43	80.71	38 26	16.50	24	21.01	30 48	14.97	17	74.19	25 27
15.62	14	73.44	42 55	13.74	50	27.45	47 38	14.15	43	80.78	30 35	13.45	26	21.38	32 07	15.33	18	74.56	26 58
14.29	18	74.49	46 39	13.96	55	28.80	40 09	15.82	43	80.84	31 51	15.25	29	22.13	38 41	14.02	20	75.06	21 32
14.15	19	74.64	43 43	16.50	35 2	30.58	49 42	16.17	46	81.40	37 29	15.25	30	22.47	37 27	16.25	22	75.44	29 52
12.98	21	75.31	47 34	14.02	3	30.72	45 27	16.50	51	82.73	33 29	11.92	33	23.17	37 49	11.38	27	76.73	27 31
16.50	23	75.84	45 46	16.50	4	31.02	47 13	14.42	52	83.09	32 54	12.97	35	23.86	30 15	16.11	31	77.78	23 14
15.74	30	77.53	40 52	14.15	9	32.32	47 42	15.97	52	83.09	30 55	14.42	36	24.07	33 41	16.50	32	77.87	26 40
14.83	32	77.98	41 56	15.77	10	32.61	45 14	14.97	54	83.52	32 53	15.19	38	24.38	38 13	11.57	35	78.79	25 35
8.88	36	78.93	45 01	16.50	18	34.39	47 07	16.17	56	83.89	38 06	14.83	44	25.88	33 27	12.12	37	79.21	21 51
13.88	39	79.81	47 53	16.50	19	34.79	48 14	16.50	57	84.34	30 13	14.02	46	26.55	37 55	15.82	38	79.58	23 40
11.46	40	79.93	42 54	14.83	30 2	55.48	30 58	16.25	59	84.78	39 06	14.42	48	26.88	33 37	16.25	43	80.81	23 29
14.97	42	80.55	46 36	13.30	2	55.60	39 51	11.97	32 9	87.17	39 25	15.11	52	28.01	35 00	15.11	47	81.76	20 45
15.48	51	82.66	45 28	15.74	3	55.84	39 35	16.50	15	88.86	37 11	15.25	54	28.44	32 08	15.53	50	82.40	24 29
16.11	53	83.26	48 44	14.97	5	56.15	34 05	15.03	19	89.74	32 40	14.15	55	28.64	37 43	16.17	53	83.27	25 33
15.74	32 7	86.85	42 28	16.50	14	58.42	35 14	15.45	25	91.24	34 43	16.50	57	29.13	32 36	16.41	54	83.55	28 03
15.82	10	87.56	48 55	14.15	14	58.56	30 44	11.63	28	92.02	33 33	15.25	35 10	32.49	32 53	15.39	55	83.69	21 47
15.74	14	88.37	46 02	15.97	17	59.26	35 06	16.50	32	92.92	38 36	13.45	16	33.97	38 23	14.56	32 2	85.39	24 48
15.45	14	88.57	47 43	16.50	18	59.53	31 11	16.25	32	93.10	31 17	16.11	16	34.02	32 05	14.83	7	86.76	22 36
15.25	19	89.80	44 57	16.25	21	60.32	32 52	14.42	40	95.01	35 21	16.41	18	34.49	35 13	16.25	13	88.16	22 57
14.69	21	90.15	44 54	15.74	25	61.21	31 25	14.97	40	95.03	35 13	16.50	19	34.76	32 20	15.48	15	88.67	27 29
15.77	25	91.20	41 45	14.56	26	61.53	31 21	14.97	41	95.24	36 36	14.02	30 1	55.15	25 46	15.39	15	88.76	24 21
13.30	25	91.32	46 42	16.50	30	62.38	30 21	16.50	44	96.02	33 53	14.69	1	55.16	29 53	13.08	16	88.96	28 31
15.17	28	92.01	46 16	14.56	30	62.54	37 40	15.88	51	97.71	30 31	16.50	8	56.91	20 30	14.02	22	90.41	24 04
13.59	32	93.05	45 14	15.88	30	62.59	33 34	16.19	55	98.64	36 12	16.25	8	56.95	25 53	16.50	41	95.25	21 24
16.17	36	94.01	43 39	13.74	31	62.67	30 47	13.30	58	99.50	30 08	16.41	8	56.95	24 20	12.89	42	95.40	28 27
16.05	38	94.51	45 22	15.48	35	63.75	35 45	14.29	33 0	0.10	38 50	15.91	8	57.05	29 02	16.50	43	95.79	29 59
16.50	40	94.92	49 38	13.96	35	63.78	39 58	15.11	4	0.90	31 33	16.50	8	57.10	23 40	16.41	47	96.70	23 58
12.79	42	95.42	48 08	15.97	47	66.80	37 43	14.56	6	1.47	37 15	16.50	14	58.40	26 31	16.50	50	97.51	24 13
13.03	44	95.92	48 19	15.82	48	67.01	31 02	13.45	11	2.65	34 24	15.62	16	59.03	21 14	13.45	53	98.21	24 49
14.97	45	96.18	42 15	12.87	49	67.16	36 58	16.50	14	3.55	33 45	16.50	18	59.55	29 48	11.52	55	98.64	20 06
15.39	56	99.06	46 53	16.50	49	67.23	34 11	16.50	20	5.09	38 19	13.30	19	59.80	27 00	14.56	55	98.79	22 00

25 prec. + 77 sec. — 7′ 41″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ‾ ″		m s	′	′ ‾ ″		m s	′	′ ‾ ″		m s	′	′ ‾ ″		m s	′	′ ″
13.68	32 56	98.95	20 00	13.02	30 14	58.60	10 30	14.83	33 23	5.76	16 32	16.50	30 40	65.00	9 33	14.42	32 53	98.36	−0 11
14.29	57	99.15	22 18	14.97	15	58.84	12 56	14.83	24	5.96	15 32	15.53	45	66.19	6 26	16.03	56	98.91	0 30
16.50	58	99.46	29 09	15.11	17	59.16	15 04	16.50	26	6.45	19 06	16.11	47	66.78	5 51	14.29	56	98.97	4 09
16.50	33 6	1.39	27 19	14.56	18	59.62	14 44	15.91	33	8.31	10 41	15.53	51	67.72	0 24	16.25	33 0	0.02	8 15
15.82	9	2.30	25 10	16.41	19	59.86	12 56	13.30	36	9.12	16 22	9.55*	52	67.98	3 55	15.74	2	0.50	1 32
12.15	16	4.07	23 20	14.15	21	60.33	13 55	14.56	38	9.45	11 03	16.50	52	68.08	5 17	10.42*	5	1.20	5 03
9.34*	17	4.19	29 28	12.05	36	64.00	11 56	16.50	42	10.39	16 12	16.11	55	68.85	8 16	15.11	6	1.49	6 22
15.53	18	4.41	26 09	16.50	36	64.08	16 07	15.11	43	10.73	17 23	16.50	57	69.37	7 35	15.53	11	2.69	2 58
16.25	22	5.47	29 17	15.19	38	64.50	14 50	11.80	43	10.79	15 46	16.50	31 10	72.59	0 06	15.05	12	2.90	5 42
16.25	29	7.26	23 15	16.50	42	65.48	10 37	14.97	48	11.90	17 17	15.03	12	72.95	7 28	16.50	16	3.98	4 32
15.53	33	8.28	25 10	15.48	43	65.65	11 58	14.02	57	14.37	11 12	11.21	15	73.63	3 20	14.29	16	4.06	6 52
11.86	35	8.77	28 48	15.48	57	69.25	18 55	16.50	34 2	15.47	14 17	16.41	16	73.92	8 07	13.74	16	4.08	6 32
16.50	36	8.95	22 34	16.03	31 4	70.92	18 00	14.24	2	15.59	19 28	15.45	21	75.23	5 53	14.15	17	4.28	2 53
16.50	38	9.46	23 23	15.25	5	71.35	14 13	15.11	8	17.08	18 58	13.45	29	77.23	3 46	14.42	18	4.60	5 15
15.25	44	11.07	22 03	15.77	6	71.55	18 39	15.17	15	18.83	12 12	15.82	30	77.61	4 20	14.83	23	5.79	2 45
16.50	45	11.18	23 31	13.59	11	72.63	19 08	15.91	16	18.98	16 40	13.38	31	77.72	5 40	16.11	27	6.65	4 04
16.19	46	11.44	24 32	16.50	12	73.03	13 54	15.62	16	19.10	16 22	14.83	32	78.00	8 15	16.50	30	7.45	9 49
16.50	51	12.67	28 05	15.11	15	73.82	18 32	16.50	21	20.24	18 55	16.50	33	78.12	5 52	14.83	35	8.82	3 05
15.68	34 1	15.22	24 07	12.96	29	77.23	10 42	15.88	23	20.73	11 42	13.28	33	78.34	7 50	16.50	43	10.65	9 25
13.88	5	16.14	23 57	16.11	32	78.07	14 21	13.80	26	21.59	19 40	16.50	35	78.72	2 01	16.50	47	11.64	2 10
16.50	10	17.44	25 47	16.50	34	78.55	14 53	12.63	27	21.78	17 11	16.50	37	79.23	0 29	15.11	50	12.60	5 08
16.50	10	17.61	23 45	15.82	35	78.67	11 36	16.25	27	21.79	19 20	15.77	38	79.51	5 39	15.53	53	13.34	6 02
16.41	16	18.90	20 57	15.82	36	79.01	19 31	15.53	38	24.50	13 45	15.19	38	79.60	7 01	16.50	53	13.35	1 32
16.41	16	18.99	23 16	15.68	37	79.28	14 11	16.41	39	24.85	10 45	13.59	41	80.37	0 02	14.51	54	13.42	0 09
14.02	20	20.12	27 25	12.78	39	79.80	12 51	16.41	43	25.86	14 44	15.11	43	80.79	2 51	16.41	34 0	15.02	4 54
16.50	24	20.89	21 38	16.50	40	80.11	13 14	15.05	46	26.56	17 07	16.50	46	81.51	0 13	15.77	2	15.41	2 49
16.50	25	21.22	22 00	16.50	43	80.67	13 25	15.11	47	26.74	18 34	14.69	47	81.76	0 58	15.82	2	15.58	0 36
15.31	26	21.63	28 19	16.41	44	81.00	17 05	15.53	47	26.84	11 33	16.50	47	81.80	3 34	16.05	8	17.10	5 41
16.41	30	22.56	26 15	16.05	48	81.91	14 01	15.05	48	26.95	19 46	16.50	47	81.81	3 49	16.05	9	17.20	4 13
16.50	34	23.41	27 01	14.91	50	82.47	13 17	15.91	48	26.95	19 30	16.11	49	82.31	4 04	12.74	10	17.58	2 10
16.50	39	24.75	20 43	16 25	54	83.58	17 44	15.74	49	27.23	13 46	16.50	53	83.20	7 02	13.59	11	17.68	1 36
15.45	42	25.44	26 03	16.05	32 2	85.52	11 31	13.08	49	27.24	16 02	13.45	55	83.82	3 24	14.02	21	20.15	8 38
16.50	48	27.12	22 57	15.82	6	86.58	11 17	16.41	35 2	30.41	13 35	12.74	32 1	85.14	3 34	15.77	25	21.28	4 12
16.08	52	28.01	20 06	14.42	10	87.42	15 17	16.50	4	31.01	12 32	16.17	5	86.19	4 30	13.88	28	21.90	6 28
16.50	54	28.42	29 50	16.50	13	88.36	18 55	15.39	8	31.94	19 54	15.53	5	86.26	7 44	15.74	29	22.26	7 45
15.11	56	29.04	27 37	15.82	17	89.32	16 36	13.45	8	32.01	11 23	12.12	9	87.15	8 48	16.41	31	22.75	5 02
15.31	59	29.72	21 44	15.39	19	89.82	11 45	16.50	13	33.20	19 08	12.58	9	87.29	7 20	15.53	36	24.05	2 41
14.97	35 0	30.06	27 29	15.53	21	90.16	18 38	14.69	16	34.08	16 37	15.88	10	87.39	1 10	14.42	38	24.48	3 13
15.39	8	32.01	22 40	15.48	26	91.54	11 09	14.69	30 1	55.17	6 53	13.96	12	87.96	9 39	14.69	38	24.56	3 20
15.45	10	32.42	23 30	16.17	26	91.55	10 37	14.29	7	56.64	6 55	14.91	14	88.53	6 31	16.50	41	25.24	1 26
14.97	10	32.61	21 46	14.69	26	91.57	10 57	16.50	8	56.94	9 08	16.41	19	89.87	3 46	14.69	48	26.96	5 55
16.50	13	33.22	22 48	16.41	30	92.44	14 40	16.50	9	57.37	9 30	16.50	23	90.68	9 05	16.50	51	27.84	1 56
14.83	14	33.49	25 27	16.41	43	95.72	12 25	14.97	14	58.42	5 37	16.50	27	91.87	9 35	16.41	35 1	30.35	9 38
14.02	14	33.50	22 23	16.50	44	96.10	17 21	14.02	16	58.95	6 50	16.50	29	92.25	9 15	14.97	8	32.04	8 02
14.42	30 4	55.99	16 07	16.03	48	96.88	16 08	14.15	22	60.50	9 27	16.41	30	92.57	4 30	14.15	10	32.41	8 30
16.25	7	56.66	14 59	14.89	51	97.83	17 03	16.19	23	60.76	9 36	13.74	33	93.16	3 22	11.66	13	33.23	5 04
14.34	7	56.82	10 01	16.41	58	99.55	10 57	16.50	26	61.48	4 20	13.45	34	93.46	6 17	13.74	15	33.70	1 46
16.50	8	57.06	12 07	13.59	33 0	99.91	14 19	14.29	32	63.03	8 10	9.26*	40	94.89	6 57	14.83	15	33.82	−2 47
16.50	10	57.55	10 14	15.39	13	3.18	17 13	14.37	33	63.16	8 28	16.50	40	95.03	6 16	14.56	30 1	55.15	+7 31
14.42	14	58.52	10 49	11.28	23	5.67	18 42	16.25	35	63.68	2 28	13.88	43	95.66	9 22	13.74	3	55.69	+5 05

25 prec. + 77 sec. — 7′ 41″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.33	30 4	55.94	6 49	15.19	32 32	93.11	3 03	16.17	35 9	32.30	7 19	16.19	32 1	85.17	13 42	16.50	34 21	20.30	16 58
16.19	7	56.84	1 20	16.19	33	93.14	7 23	16.19	13	33.20	1 16	14.29	5	86.20	11 41	15.33	25	21.31	10 53
14.89	11	57.66	9 44	16.50	33	93.30	2 17	13.45	15	33.70	6 15	16.17	7	86.69	10 30	15.62	29	22.18	10 37
13.74	13	58.32	5 03	15.97	40	94.93	9 44	14.97	19	34.77	4 26	15.25	9	87.34	12 22	15.74	34	23.47	14 05
11.76	17	59.28	7 04	14.02	41	95.30	6 22	15.31	30 1	55.21	14 24	16.19	9	87.37	16 34	16.41	40	25.11	13 54
14.83	24	60.94	0 47	16.05	42	95.57	9 18	14.97	2	55.55	15 31	15.77	14	88.48	14 40	15.68	41	25.34	12 15
16.05	26	61.40	5 28	13.12	45	96.23	9 11	16.25	6	56.38	19 48	16.50	15	88.83	12 19	16.41	42	25.47	10 36
12.82	29	62.33	9 59	15.39	46	96.41	8 36	16.50	9	57.20	16 45	16.14	15	88.86	19 52	15.11	45	26.17	15 00
15.88	32	63.10	9 20	15.11	47	96.71	2 30	16.41	9	57.33	15 10	16.50	18	89.56	12 42	13.45	48	26.95	16 14
14.15	40	65.09	6 34	16.50	51	97.80	8 59	14.97	11	57.75	11 48	13.88	19	89.77	18 07	15.82	57	29.14	17 42
15.11	40	65.09	5 37	15.97	52	98.11	9 26	14.56	26	61.45	10 51	15.82	20	89.98	16 03	15.53	58	29.58	15 43
15.62	41	65.18	3 48	14.83	53	98.17	0 04	16.03	26	61.54	16 28	14.97	23	90.71	19 04	15.62	35 1	30.23	19 38
12.21	50	67.47	9 15	11.69	54	98.60	1 19	16.50	36	64.11	13 46	8.78*	23	90.75	17 19	15.25	1	30.27	14 24
15.68	52	68.07	9 52	13.59	33 3	0.70	9 31	14.91	37	64.28	10 33	15.39	33	93.34	13 56	15.74	12	33.12	11 31
16.19	54	68.46	4 40	16.11	6	1.57	5 11	14.89	39	64.80	14 26	15.68	41	95.30	13 23	16.19	15	33.77	11 05
15.11	55	68.80	7 04	14.07	10	2.56	9 31	15.25	40	64.88	16 40	16.50	42	95.50	10 23	16.19	17	34.23	12 34
16.25	58	69.56	4 28	15.53	14	3.47	4 29	16.41	40	65.00	16 06	16.50	48	97.02	15 49	12.59	20	34.91	14 21
16.11	31 3	70.64	2 57	15.59	14	3.54	9 08	15.62	43	65.82	16 51	16.17	49	97.34	11 51	16.50	30 10	57.45	26 38
15.11	6	71.48	2 03	16.50	19	4.68	7 07	16.50	48	66.94	17 21	14.83	55	98.72	16 05	16.41	11	57.76	20 35
15.11	7	71.67	1 18	16.03	22	5.54	1 40	15.97	48	67.08	13 02	16.25	33 6	1.41	19 04	16.19	14	58.52	29 12
15.11	11	72.72	2 49	16.50	24	5.97	7 04	13.30	49	67.26	16 27	15.48	8	1.91	10 38	15.62	19	59.85	21 36
14.83	15	73.64	3 39	15.91	37	9.21	7 29	15.39	51	67.76	19 13	14.69	9	2.24	11 16	15.74	20	59.99	23 47
14.97	15	73.86	7 37	14.15	40	9.89	1 04	16.50	53	68.20	14 42	15.62	9	2.29	15 59	15.45	33	63.14	28 56
16.50	16	74.02	9 49	15.62	43	10.73	1 24	15.11	54	68.58	11 50	15.74	10	2.45	11 50	16.50	34	63.51	23 47
15.39	26	76.50	9 51	15.03	53	13.20	8 40	15.91	59	69.74	10 06	14.56	14	3.42	13 40	13.22	47	66.78	24 19
16.50	28	77.04	4 36	16.50	54	13.58	0 04	14.69	59	69.77	14 36	14.69ne	19	4.67	16 51	15.25	47	66.82	22 28
16.25	35	78.72	8 17	11.69	56	14.02	0 50	14.56	31 0	69.97	11 13	13.28	19	4.67	11 54	16.25	50	67.49	22 05
15.68	41	80.35	6 49	12.98	59	14.73	4 53	16.50	2	70.44	16 24	16.50	21	5.17	14 41	15.33	51	67.79	29 36
16.50	44	80.90	5 43	16.50	34 4	15.90	4 57	16.50	3	70.65	15 23	16.41	23	5.87	19 02	16.50	54	68.49	20 53
14.83	44	81.05	1 43	13.08	8	16.96	5 00	16.50	5	71.28	14 36	16.05	30	7.47	13 17	14.83	56	69.08	23 13
16.19	45	81.36	9 06	12.89	8	16.98	9 21	15.91	10	72.41	11 06	16.50	34	8.52	12 32	16.11	31 5	71.32	23 13
16.17	48	81.99	6 56	14.69	13	18.27	4 32	16.03	10	72.42	15 23	16.50	40	9.91	18 21	15.45	6	71.45	22 31
15.17	48	82.00	6 11	14.97	13	18.32	8 10	16.41	13	73.32	10 41	16.25	45	11.26	13 12	14.42	9	72.26	22 00
16.33	49	82.29	0 19	10.84	20	19.88	7 25	14.02	15	73.64	18 44	14.61	45	11.34	19 26	15.25	14	73.48	27 28
14.97	51	82.71	3 31	16.17	22	20.43	9 10	15.59	19	74.74	12 04	16.25	47	11.75	11 17	16.41	18	74.44	25 31
14.83	54	83.38	1 23	16.25	25	21.27	8 09	15.62	21	75.34	12 29	16.03	47	11.83	15 34	15.33	18	74.45	22 15
13.66	55	83.72	3 12	16.11	33	23.15	0 23	16.41	22	75.44	16 28	15.39	51	12.73	13 04	15.74	20	74.93	25 10
14.91	57	84.30	9 26	15.48	34	23.46	0 43	16.50	23	75.71	17 36	15.39	52	12.93	10 58	13.38	24	75.94	26 44
14.83	58	84.48	4 55	15.25	34	23.48	9 09	16.50	23	75.84	14 51	16.33	54	13.42	19 43	15.88	34	78.56	21 16
16.50	32 5	86.27	4 24	15.53	38	24.43	1 41	13.51	31	77.64	19 47	16.50	56	14.02	11 46	16.19	34	78.56	21 21
16.50	6	86.46	2 04	14.83	38	24.54	9 40	16.50	37	79.31	17 18	16.50	56	14.12	15 23	16.50	35	78.63	25 10
13.28	6	86.47	6 34	13.74	39	24.75	0 07	16.50	38	79.51	15 36	14.83	34 0	15.07	16 09	13.02	38	79.61	23 38
13.39	8	87.01	9 31	16.41	41	25.27	9 05	16.50	38	79.61	15 15	12.33	0	15.12	10 42	16.41	43	80.82	25 21
16.50	11	87.77	4 37	15.33	44	26.07	3 37	15.19	44	81.07	14 54	16.50	1	15.14	11 34	16.25	48	82.08	28 34
14.56	13	88.26	9 16	12.08	50	27.44	1 37	15.97	46	81.48	18 12	16.50	8	16.88	17 53	16.19	54	83.52	22 32
16.50	16	89.12	1 37	16.50	52	28.03	0 51	15.25	50	82.40	15 20	16.50	12	17.91	18 09	15.82	58	84.58	23 43
16.50	26	91.51	3 57	16.11	55	28.63	5 45	16.50	52	82.89	17 51	12.24	12	18.12	11 34	13.18	32 1	85.37	25 16
16.50	26	91.51	3 20	16.19	55	28.66	4 30	16.17	56	83.89	16 09	15.97	13	18.21	13 33	15.62	2	85.51	21 40
14.42	31	92.81	2 34	12.32	55	28.83	2 55	15.53	57	84.29	12 53	15.88	13	18.28	11 52	14.29	2	85.57	23 44
13.08	32	92.95	7 46	12.32	35 7	31.71	1 05	16.41	58	84.41	10 47	16.11	15	18.76	13 33	16.50	5	86.19	29 22

25 prec. + 77 sec. — 7′ 41″.

13^h Area 105. $+0°$

751—770				771—790				791—810				811—819							
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′				
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″								
15.11	32 6	86.38	29 58	16.50	32 59	99.68	24 28	13.74	33 53	13.13	28 43	14.97	34 46	26.47	22 28				
15.11	6	86.52	27 01	15.45	33 6	1.50	29 31	11.72	55	13.83	20 53	14.83	46	26.61	29 41				
15.33	14	88.50	20 22	14.97	7	1.71	21 11	14.97	59	14.71	27 42	15.48	52	27.95	25 50				
16.50	19	89.75	29 31	16.41	14	3.61	26 23	14.97	34 2	15.47	28 39	15.05	53	28.14	21 40				
16.50	21	90.26	21 21	15.39	15	3.66	25 29	14.02	7	16.82	22 59	11.62	57	29.15	28 16				
16.50	23	90.67	28 25	15.19	19	4.78	25 03	16.50	9	17.32	23 01	16.25	57	29.26	23 53				
13.12	28	91.95	22 27	15.48	20	4.98	27 52	14.69	11	17.81	24 55	16.19	35 17	34.34	21 17				
15.19	28	92.12	22 00	16.50	27	6.87	29 04	16.41	12	18.01	24 19	15.59	18	34.50	27 21				
11.49	32	93.01	20 37	15.74	29	7.28	25 18	16.41	24	21.09	20 32	14.29	20	34.91	27 39				
16.41	35	93.76	23 32	14.02	41	10.25	25 44	16.41	25	21.22	21 18								
16.25	36	93.91	28 56	13.12	42	10.39	20 39	16.03	28	22.12	26 25								
16.50	43	95.63	23 36	16.50	42	10.55	23 28	14.02	33	23.26	23 36								
16.50	44	96.01	22 23	15.74	44	10.91	22 52	15.25	33	23.35	21 17								
16.25	46	96.56	29 12	14.15	44	11.02	29 42	16.25	36	23.89	29 21								
16.05	49	97.14	21 21	15.25	47	11.64	28 58	16.50	36	23.99	28 54								
14.97	50	97.59	22 30	16.50	47	11.76	25 02	14.83	36	24.01	24 54								
16.11	50	97.61	22 36	13.88	47	11.83	25 45	16.50	37	24.17	24 09								
16.50	55	98.72	29 48	11.38	49	12.21	29 39	15.74	38	24.58	27 40								
15.33	58	99.51	22 32	16.05	49	12.29	24 50	16.50	39	24.86	21 36								
16.50	58	99.51	24 40	16.05	52	12.94	21 28	13.66	45	26.28	22 20								

25 prec. + 77 sec. — 7′ 40″.

14^h Area 106. Centre for 1900: 14^h 37^m 0° 0′. —0°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.29	33 56	53.90	36 06	16.29	34 36	64.09	31 34	16.20	35 23	75.64	36 19	16.04	35 55	83.65	39 24	15.70	36 30	92.47	33 17
15.70	57	54.21	39 20	16.29	39	64.64	32 03	14.56	24	76.09	33 38	14.49	57	84.26	38 09	16.29	31	92.71	33 07
15.52	34 2	55.52	37 40	16.04	44	66.01	38 12	15.83	26	76.58	31 13	15.73	58	84.50	32 48	12.98	31	92.73	36 36
15.44	4	56.02	37 11	12.98	55	68.73	32 14	15.91	28	77.10	33 01	13.92	58	84.56	38 26	16.20	35	93.81	32 39
15.91	7	56.63	36 51	16.20	55	68.82	33 25	16.29	32	77.90	34 41	16.04	36 6	86.55	34 46	16.20	36	94.10	33 11
16.04	7	56.76	32 18	15.99	56	68.91	34 37	15.32	34	78.40	35 17	15.46	6	86.59	31 40	15.73	37	94.31	33 59
16.04	9	57.20	34 20	9.60	57	69.23	38 28	13.51	34	78.40	33 22	15.96	10	87.55	39 15	15.18	40	95.02	34 12
14.89	9	57.31	31 52	14.71	35 2	70.50	34 18	15.99	35	78.68	39 31	15.44	12	87.90	34 25	15.30	41	95.18	32 06
15.04	12	58.11	31 07	15.86	4	70.89	33 43	14.02	36	78.93	39 17	15.44	12	88.05	31 12	15.96	42	95.41	35 12
15.65	13	58.26	33 12	10.55	7	71.81	37 59	15.18	36	79.09	33 13	15.38	12	88.05	38 29	15.32	48	97.09	31 59
14.65	13	58.36	36 35	15.91	9	72.30	37 49	13.85	38	79.50	39 26	12.98	13	88.19	33 55	15.52	49	97.32	32 38
16.20	16	59.00	32 40	15.38	11	72.71	32 12	16.20	39	79.79	32 19	15.83	13	88.24	39 23	10.00	51	97.69	33 30
13.85	16	59.09	37 43	15.73	11	72.79	30 11	16.29	40	79.89	31 06	15.70	15	88.75	35 14	16.04	51	97.75	36 10
15.70	18	59.39	31 19	15.24	15	73.74	31 35	16.04	42	80.59	33 01	15.57	17	89.17	39 01	15.99?	52	97.93	34 35
15.99	19	59.67	38 05	15.99	16	74.05	34 12	15.83	43	80.72	37 40	16.20	17	89.24	36 08	16.20	53	98.17	32 42
16.29	23	60.87	30 21	15.30	17	74.28	33 14	16.04	46	81.44	31 06	16.29	21	90.14	32 56	16.29	55	98.80	38 22
14.12	24	60.97	35 33	15.91	19	74.76	32 48	15.60	50	82.55	31 25	13.51	24	90.93	37 56	14.95	56	99.11	31 22
15.52	30	62.54	31 02	14.02	19	74.80	39 53	16.29	51	82.69	31 07	15.09	24	91.03	30 27	14.95	58	99.50	31 13
15.91	34	63.56	36 09	16.29	20	75.02	36 30	14.02	52	83.12	36 03	16.29?	24	91.12	33 27	15.44	58	99.54	39 50
15.86	36	63.96	39 13	15.57	23	75.63	31 31	15.70	54	83.49	31 27	15.01	26	91.53	37 29	15.38	37 2	0.38	39 51

25 prec. + 77 sec. — 6′ 30″.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.85	37 4	0.97	36 16	16.29	38 37	24.14	34 59	15.01	34 58	69.44	28 34	16.04	36 55	98.70	23 06	13.51	38 15	18.71	28 30
15.65	12	3.02	38 38	13.34	41	25.21	35 06	14.34	35 1	70.15	28 12	16.29	37 0	99.95	22 14	15.30	16	19.11	20 09
15.01	14	3.56	35 43	15.91	44	25.94	33 21	16.29	2	70.54	22 44	16.29	1	0.17	22 15	15.86	17	19.35	29 16
14.59	19	4.87	38 32	16.29	48	26.97	39 47	15.15	6	71.41	21 13	16.29	4	0.99	20 55	16.29	18	19.50	21 49
14.18	21	5.16	32 33	16.29	50	27.49	31 30	15.91?	6	71.43	28 54	15.52	7	1.78	21 06	14.74	18	19.58	26 41
14.71	21	5.19	37 48	16.20	51	27.69	33 22	15.96	8	71.91	27 19	16.29	8	2.08	26 31	16.29	18	19.60	28 42
15.32	21	5.37	31 03	15.04	51	27.84	31 13	14.71	8	71.92	25 13	15.99	9	2.34	20 14	16.29	20	19.99	21 06
14.89	23	5.66	38 32	15.91	56	29.11	30 09	15.91	8	71.97	22 15	13.85	10	2.48	26 29	15.09	21	20.23	27 44
11.46	23	5.76	37 33	15.83	57	29.35	30 11	16.29	9	72.14	26 30	16.29	11	2.86	24 19	16.29	21	20.31	22 46
16.04	30	7.50	30 43	13.69	58	29.52	39 26	15.01	12	73.09	22 56	16.29	12	3.09	23 04	16.20	22	20.51	20 04
16.20	32	8.07	36 26	14.80	58	29.55	33 39	14.02	13	73.14	23 29	14.86	14	3.45	23 34	10.82	28	21.97	27 04
13.34	33	8.12	32 35	14.74	59	29.65	38 37	14.59	14	73.47	26 46	15.70	14	3.58	20 43	15.78	30	22.48	23 01
16.29	33	8.15	35 46	16.29	39 4	30.99	39 11	16.29	18	74.60	24 25	13.51	14	3.59	28 31	16.29	30	22.57	23 19
16.29	35	8.64	33 36	16.29	6	31.43	38 36	14.59	19	74.70	20 37	15.65	15	3.63	21 01	13.34	32	22.92	20 41
16.29	37	9.35	32 29	16.29	7	31.63	30 19	15.57	25	76.22	21 58	15.46	15	3.84	22 15	15.12	33	23.16	29 42
16.20	39	9.84	38 14	14.02	9	32.32	34 27	14.34	26	76.43	23 46	11.09	18	4.62	22 34	11.85	34	23.41	21 31
16.29	41	10.37	32 11	12.80	33 52	53.03	26 20	16.29	29	77.22	28 47	16.20	23	5.74	20 22	14.02	34	23.59	23 37
14.12	46	11.52	39 07	15.52	53	53.36	27 58	16.29	30	77.51	26 02	16.29	25	6.28	20 35	16.29	37	24.13	20 45
15.70	47	11.82	30 47	15.24	55	53.75	25 35	15.09	33	78.29	26 58	16.20	28	6.97	25 05	11.46	43	25.66	25 53
16.29	48	11.90	32 01	15.73	57	54.29	23 05	14.02	37	79.26	21 18	15.70	29	7.35	27 15	12.80	45	26.32	25 05
16.29	52	13.12	36 51	15.46	58	54.38	22 20	15.91	38	79.41	29 00	14.02	31	7.76	22 22	15.70	47	26.66	24 06
16.29	54	13.42	39 20	15.46	34 0	54.92	20 40	16.29	38	79.59	22 09	15.78	33	8.14	22 10	13.51	55	28.83	24 05
15.60	54	13.48	31 28	16.29	3	55.83	24 17	14.89	41	80.31	25 23	15.46	33	8.36	25 34	16.29	55	28.87	20 15
16.20	55	13.81	34 47	15.78	4	56.08	22 03	16.29	45	81.29	25 07	15.91?	35	8.66	20 57	15.91	39 1	30.25	21 41
16.04	56	13.87	36 10	10.06	5	56.15	21 04	16.29	46	81.47	21 01	13.51	36	8.96	20 31	15.04	2	30.46	20 45
15.99	56	13.89	31 11	14.59	5	56.22	26 40	16.29	46	81.58	24 56	15.60	39	9.66	24 22	14.65	4	31.11	28 40
16.20	57	14.16	38 13	15.86	5	56.31	27 48	15.24	49	82.18	27 45	13.51	41	10.18	21 30	15.73	8	31.96	27 45
15.96	58	14.55	30 53	15.96	15	58.70	25 30	15.60	51	82.87	26 23	16.29	42	10.44	22 57	15.04	10	32.38	23 28
15.46	38 0	14.91	39 45	16.29	15	58.81	28 50	15.91	51	82.87	24 09	15.83	43	10.63	22 36	14.40	10	32.50	26 24
15.32	1	15.29	37 03	16.04	16	58.92	26 05	14.08	52	83.06	27 13	13.69	45	11.17	22 40	11.61	33 53	53.26	13 07
15.96	2	15.48	32 25	14.80	16	58.92	24 33	15.60	36 4	85.92	25 56	14.02	49	12.21	28 08	16.20	54	53.45	12 12
16.20	5	16.14	39 59	14.86	17	59.16	28 08	15.86?	8	87.11	26 57	14.43	52	13.05	23 56	15.99	57	54.23	19 56
15.83	8	17.09	32 55	15.15	20	59.90	22 04	16.29	13	88.16	20 49	15.73	54	13.61	25 17	16.29	58	54.54	17 11
14.74	11	17.83	39 33	16.29	20	59.99	22 20	16.29	13	88.16	27 55	16.29	54	13.62	24 58	15.96	59	54.86	18 30
15.96	13	18.22	37 13	16.29	21	60.21	20 18	15.44	16	88.94	25 18	15.78	55	13.81	22 59	14.43	34 5	56.18	12 13
15.78	16	19.03	38 39	16.29	25	61.18	28 24	16.29	16	88.95	26 24	15.73	57	14.18	28 47	16.04	6	56.54	10 33
13.85	16	19.09	36 58	15.57	25	61.35	29 56	15.78	21	90.26	26 13	16.20	57	14.31	24 59	16.29	7	56.74	11 45
14.89	17	19.15	35 50	15.83	27	61.85	22 37	15.78	22	90.44	27 26	15.46	57	14.35	26 26	15.15	9	57.22	14 32
15.78	17	19.27	38 22	15.60	31	62.72	24 07	16.29	25	91.14	22 46	14.34	58	14.59	22 58	15.52	11	57.65	14 12
15.73	18	19.42	31 03	15.24	36	63.97	25 03	15.83	25	91.30	28 41	16.29	59	14.63	20 15	16.04	11	57.78	19 46
15.35	21	20.15	30 20	14.65	36	64.07	26 14	15.60	26	91.54	24 27	15.86	38 2	15.41	25 25	15.15	13	58.15	17 32
15.15	22	20.53	33 40	16.04	39	64.87	23 15	15.38	38	94.41	21 33	15.46	2	15.58	26 22	13.69	16	58.99	13 04
15.91	22	20.59	32 04	15.24	40	64.95	27 24	16.29	41	95.31	24 45	15.09	3	15.70	24 02	15.99	17	59.13	13 23
15.52	27	21.77	32 03	15.96	41	65.20	29 31	15.96	43	95.72	20 36	15.44	3	15.84	29 04	14.49	17	59.35	15 39
14.86	29	22.35	31 11	13.16	43	65.82	26 02	16.29	44	96.00	26 05	14.89	5	16.30	23 27	15.99	22	60.42	16 16
14.02	30	22.62	31 04	12.98	45	66.16	23 09	15.18	45	96.26	29 45	15.18	6	16.59	20 03	16.29	23	60.73	11 40
15.91	31	22.66	38 28	12.22	51	67.67	20 22	16.29	46	96.48	25 49	15.91	8	17.01	27 37	14.02	24	61.03	16 48
15.24	33	23.26	39 59	15.01	54	68.55	28 07	15.30	46	96.49	26 12	12.61	8	17.02	21 30	16.29	36	63.96	13 32
14.89	34	23.48	37 34	14.02	55	68.64	23 39	15.44	47	96.71	22 49	16.20	12	17.88	24 15	16.29	39	64.64	12 16
15.24	35	23.87	31 52	15.46	57	69.13	20 47	15.91	47	96.81	26 35	14.12	13	18.19	26 11	15.01	39	64.76	13 09

25 prec. + 77 sec. — 6′ 28″.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int magn	α	x	y—0′	Int. magn.	α	x	y—0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.09	34 44	66.08	17 39	10.93	36 36	93.97	16 44	16.29	38 12	17.96	17 43	15.86	34 35	63.86	7 51	16.29	35 49	82.20	6 06
15.78	45	66.37	11 58	16.29	38	94.40	10 32	13.34	15	18.71	19 42	15.46	37	64.14	9 42	15.12	49	82.30	9 41
15.91	46	66.38	18 42	15.32	38	94.46	10 50	13.16	16	18.95	18 46	14.65	37	64.19	2 55	13.34	50	82.60	1 59
15.57	49	67.36	15 32	13.69	39	94.67	10 33	14.02	17	19.25	12 35	14.89	38	64.50	3 04	14.95	52	82.98	3 09
16.04	52	68.06	12 23	15.70	42	95.49	18 18	14.28	17	19.31	10 09	14.02	44	65.97	7 35	15.18	52	83.00	6 42
16.29	53	68.32	15 52	13.92	44	95.94	12 27	16.29	18	19.42	14 37	15.96	44	66.09	8 18	15.86	54	83.58	3 10
16.29	35 0	69.97	14 55	15.38	44	95.96	18 07	14.02	21	20.23	19 14	16.29	46	66.39	1 33	14.56	55	83.70	7 06
15.57	4	71.05	12 08	14.95	47	96.73	10 20	16.29	22	20.45	13 12	15.65	46	66.56	7 45	15.09	58	84.39	4 18
16.04	4	71.12	18 20	15.96	48	97.02	12 49	16.20	23	20.63	14 59	15.18	47	66.66	6 32	15.57	36 1	85.24	7 48
13.85	8	72.08	16 56	13.85	50	97.62	12 33	16.29	24	20.90	15 33	15.96	48	67.01	1 06	13.51	5	86.18	1 11
15.70	10	72.53	17 30	9.48*	51	97.83	13 26	13.85	25	21.37	17 57	16.29	49	67.27	0 38	16.29	5	86.30	6 18
15.04	13	73.29	13 16	15.57	55	98.73	18 53	16.29	27	21.74	15 09	15.18	50	67.45	5 16	16.29	6	86.44	3 46
16.04?	13	73.35	10 11	15.94	37 1	0.22	10 25	15.99	29	22.28	19 59	14.89	52	67.91	6 40	14.02	8	87.08	7 07
15.24	15	73.75	19 00	16.29	1	0.25	17 24	15.52	31	22.71	11 10	16.20	57	69.28	0 56	16.20	9	87.17	2 01
16.29	18	74.48	19 57	15.88	4	0.96	10 07	16.20	31	22.87	10 32	16.04	59	69.75	5 04	14.43	9	87.19	5 51
15.30	20	75.08	10 40	13.99	5	1.23	10 16	16.04	35	23.63	10 11	12.61	59	69.78	6 04	15.46	10	87.52	1 18
15.70	24	75.93	12 48	15.83	5	1.31	15 39	14.83	38	24.50	10 04	15.46	35 6	71.44	0 06	15.24	10	87.57	0 53
15.96	24	75.97	12 10	16.29	7	1.79	11 07	14.80	39	24.70	18 46	15.18	8	72.02	8 03	16.29	11	87.81	5 27
14.28	25	76.31	18 49	15.44	7	1.82	13 35	16.29	40	24.90	17 30	15.32	10	72.38	7 26	16.29	24	90.91	8 32
16.20	25	76.33	16 15	12.69	18	4.49	19 52	15.96	40	25.12	10 58	12.98	10	72.46	8 28	15.52	24	90.95	9 51
14.02	27	76.63	16 03	15.78	18	4.59	13 08	16.29	41	25.28	11 50	15.15	10	72.53	4 32	16.04	25	91.36	9 41
16.29	27	76.67	15 52	16.29	21	5.27	17 54	13.51	41	25.32	17 04	16.29	14	73.56	2 49	14.59	27	91.75	5 03
15.99	27	76.73	19 48	16.04	24	6.09	19 15	14.43	42	25.38	15 05	16.04	15	73.63	8 50	11.32	29	92.34	9 12
15.73	28	77.09	18 21	14.43	25	6.36	12 08	16.29	43	25.80	15 01	14.59	15	73.64	5 15	16.29	31	92.64	1 49
16.29	31	77.65	18 16	12.98	26	6.41	13 06	15.32	46	26.59	16 52	15.04	18	74.52	0 56	10.56	31	92.75	0 21
15.52	31	77.72	12 00	15.65	27	6.76	17 16	16.29	49	27.28	12 01	15.18	19	74.64	1 55	15.70	32	92.98	0 51
15.04	34	78.60	15 28	10.93	27	6.82	13 15	16.29	55	28.66	18 18	16.29	19	74.82	1 00	14.86	33	93.32	8 00
15.01	36	78.94	16 16	15.86	29	7.37	15 58	16.29	57	29.26	13 48	16.04	21	75.35	2 01	15.18	36	94.01	2 45
14.02	38	79.39	10 37	14.86	31	7.68	12 01	16.04	58	29.57	15 34	15.99	21	75.35	9 28	16.29	36	94.03	1 50
12.98	40	79.93	14 25	15.99	34	8.49	14 30	12.98	59	29.77	12 36	16.29	23	75.63	3 00	15.46	46	96.39	2 23
14.34	40	80.03	13 45	10.57	36	9.07	14 13	15.01	39 1	30.15	16 39	14.18	25	76.19	4 35	14.02	46	96.44	8 56
16.29	43	80.84	18 00	12.98	37	9.23	17 09	14.49	2	30.41	11 08	16.29	25	76.25	3 55	14.43	48	97.09	5 39
16.29	44	80.95	17 47	15.07	37	9.27	19 32	16.20	3	30.78	17 23	13.85	25	76.27	4 28	14.43	48	97.12	9 15
15.15	45	81.14	15 39	15.86	41	10.13	14 06	16.29	4	30.89	10 34	15.96	29	77.23	7 29	16.29	54	98.41	5 20
15.09	48	82.06	17 53	16.04	42	10.48	12 10	9.64	6	31.52	11 41	16.29	29	77.33	3 32	15.96	55	98.69	1 29
12.06	49	82.34	18 26	13.69	43	10.65	13 17	15.57	7	31.82	11 54	14.89	30	77.44	7 42	13.34	56	98.97	3 14
14.80	53	83.16	19 04	16.29	44	10.87	13 02	15.18	33 59	54.73	9 06	14.49	31	77.84	5 40	15.32	57	99.21	3 50
14.34	53	83.31	16 29	15.52	44	10.88	18 10	14.95	34 4	56.06	3 04	15.99	34	78.60	6 21	12.22	37 2	0.48	0 28
15.91	56	83.91	18 50	15.01	44	10.88	16 12	12.98	4	56.10	5 28	15.91	36	78.93	8 19	14.28	5	1.32	8 56
15.57?	59	84.75	15 05	14.89	45	11.31	14 46	14.56	9	57.21	7 32	14.02	36	78.96	5 49	14.18	6	1.61	3 07
15.44	36 10	87.51	12 13	15.52	48	11.89	10 51	15.86	10	57.46	8 02	14.89	39	79.69	1 55	14.56	10	2.41	3 31
16.29	16	89.04	15 10	15.99	55	13.82	13 19	14.24	11	57.64	9 16	11.08	39	79.87	6 29	16.29	11	2.71	4 18
16.29	18	89.60	10 50	15.04	58	14.58	14 54	14.34	13	58.32	3 10	16.04?	41	80.33	8 02	16.29	11	2.74	8 03
16.29	19	89.68	17 04	16.29	38 1	15.35	12 10	14.40	14	58.59	0 10	15.09	42	80.48	8 53	15.86	13	3.19	4 27
15.78	22	90.47	19 06	13.62	1	15.35	10 25	15.86	21	60.19	9 17	14.02	42	80.53	4 10	15.01	13	3.28	4 35
13.85	24	91.07	16 54	15.83	3	15.65	17 21	16.29	21	60.31	8 27	15.86	45	81.15	4 44	14.49	14	3.54	4 40
16.29	29	92.24	18 36	14.80	3	15.65	13 30	15.32	22	60.42	6 05	16.20	46	81.40	2 26	16.20	16	3.93	5 09
15.65	33	93.16	16 40	15.83	3	15.80	12 16	15.04	22	60.44	4 24	13.51	47	81.70	3 30	14.74	18	4.61	9 31
15.78	33	93.29	12 10	16.29	5	16.31	16 48	12.46	22	60.61	8 37	15.78	47	81.78	8 02	15.04	20	5.11	8 21
15.57	34	93.52	13 04	16.29	9	17.33	10 15	16.04	27	61.83	5 36	13.34	48	81.93	2 08	16.29	21	5.34	3 58

25 prec. + 77 sec. — 6′ 29″.

Area 106.

601—650				651—700				701—750				751—800				801—850			
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′
	m s	′	′ − ″		m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″
16.29	37 22	5.53	0 43	13.34	39 8	31.96	−0 47	15.38	35 47	81.79	1 40	16.29	37 36	9.04	8 00	13.69	39 6	31.62	6 47
15.91	24	5.90	1 29	14.95	10	32.49	−7 05	11.08	48	82.08	8 36	neb.	38	9.60	4 33	15.30	8	31.95	3 33
16.29	24	6.12	7 53	10.08	33 52	53.06	+6 01	14.34ne	49	82.25	6 40	15.32	43	10.77	8 34	15.52	11	32.65	8 23
15.09	25	6.15	1 53	16.29	52	53.08	2 09	15.96	54	83.53	3 00	14.12	43	10.78	7 46	16.29	33 54	53.48	13 11
14.95	25	6.34	0 06	14.86	54	53.52	8 15	15.60	55	83.70	8 26	14.59	44	10.90	2 05	15.44	55	53.75	18 25
14.89	25	6.36	5 43	16.29	57	54.31	9 54	15.70	56	84.01	6 07	13.69	45	11.19	5 09	14.80	55	53.84	12 34
16.29	29	7.30	5 36	16.04	59	54.77	1 43	13.69	56	84.01	0 59	16.29	46	11.38	7 44	15.15	55	53.85	10 25
16.29	31	7.69	5 21	14.80	34 3	55.75	2 32	16.29	59	84.80	4 25	16.29	46	11.42	9 11	15.44	57	54.33	11 53
12.80	32	8.06	0 49	13.85	3	55.79	4 07	15.24	36 2	85.40	2 04	16.29	48	11.97	3 58	15.46	57	54.36	17 13
16.04	34	8.42	3 25	15.15	4	56.03	0 53	15.46	2	85.50	2 52	15.78	48	12.01	8 23	15.86	59	54.73	16 53
16.29	38	9.58	0 18	15.15	8	57.08	5 12	14.95	2	85.60	5 44	15.70	49	12.16	7 27	15.44	34 0	54.95	13 18
15.01	39	9.68	3 52	15.91	10	57.42	6 16	16.29	6	86.55	1 28	16.29	49	12.20	3 34	14.74	1	55.17	11 17
15.18	39	9.77	7 21	14.74	13	58.21	1 06	15.46	13	88.15	4 42	15.60	51	12.76	0 48	15.65	1	55.25	13 10
13.69	40	10.03	4 00	15.99	17	59.35	4 56	13.89	13	88.18	9 25	16.29	52	12.92	8 55	16.29	1	55.34	16 28
14.86	40	10.06	2 40	16.29?	20	59.90	8 13	14.18	13	88.29	9 40	16.29	52	13.04	2 02	15.01	2	55.51	14 18
16.04	49	12.16	0 59	16.29	20	60.02	2 31	16.29	16	88.90	3 33	16.20	53	13.15	4 26	16.29	3	55.66	11 48
16.29	50	12.61	9 05	16.29	27	61.80	3 54	15.46	19	89.67	8 21	15.73	53	13.18	0 13	14.18	4	56.03	16 09
15.83	51	12.71	6 03	16.20	28	62.00	2 36	14.34	20	89.99	7 14	15.15	55	13.64	0 07	16.29	5	56.16	12 51
15.46	52	13.07	1 12	15.30	28	62.11	5 21	14.71	21	90.17	7 01	14.80	56	14.05	3 24	15.73	7	56.64	19 07
14.08	56	13.94	9 41	12.61	30	62.42	4 00	16.20	24	90.90	6 33	15.83	58	14.55	5 07	15.18	9	57.13	16 49
14.24	38 2	15.45	2 30	15.60	32	63.02	4 52	16.29	30	92.49	8 16	16.29	38 1	15.13	7 59	16.20	9	57.32	10 59
14.40	6	16.45	0 45	16.29	32	63.11	0 54	15.96	33	93.36	8 45	12.98	6	16.43	8 58	15.18	12	58.11	13 42
15.65	10	17.39	1 22	13.34	33	63.18	3 49	15.04	36	94.01	3 05	15.15	7	16.84	1 36	16.20	12	58.12	11 53
14.02	13	18.24	7 32	15.46	34	63.51	9 49	16.29?	36	94.07	6 35	14.89	12	18.11	9 35	13.34	13	58.32	18 23
16.29	14	18.52	0 00	15.44	38	64.50	2 58	15.65	39	94.64	1 12	14.86	15	18.63	2 15	12.98	14	58.47	13 05
15.09	28	21.93	1 39	16.29	41	65.33	5 55	16.20	39	94.65	1 41	16.29	17	19.20	7 53	15.01	14	58.51	15 23
15.99	30	22.57	0 17	15.70	42	65.57	8 31	15.24	39	94.78	9 53	10.05	21	20.33	3 26	15.18	15	58.72	11 19
16.20	32	23.09	9 07	15.38	43	65.76	1 30	11.91	39	94.87	4 23	16.29	21	20.34	8 06	15.78	16	58.97	15 17
14.40	33	23.14	2 11	16.29	45	66.18	1 09	15.78	41	95.35	6 55	15.52	22	20.41	6 45	15.86	17	59.19	14 36
12.80	34	23.47	6 24	16.29	47	66.82	1 33	14.34	44	95.92	4 30	15.86	23	20.82	8 37	15.21	19	59.69	19 40
16.29	35	23.87	0 34	16.29	51	67.78	6 26	15.83	46	96.46	6 35	15.32	30	22.43	4 12	15.01	19	59.72	15 29
15.60	37	24.29	3 52	16.20	52	67.97	1 38	16.29	51	97.64	5 05	16.29	36	23.95	7 54	15.88	20	60.02	19 20
15.70	37	24.31	8 32	16.04	54	68.39	5 03	15.86	51	97.70	2 53	14.34	44	25.98	8 56	13.76	21	60.21	19 49
13.34	37	24.32	8 26	15.70	55	68.75	5 08	15.30	52	98.03	2 43	15.86	46	26.41	1 09	9.67	22	60.38	11 01
14.59	38	24.59	4 35	14.49	58	69.50	2 05	15.91	57	99.20	9 42	16.20	48	26.93	5 33	14.28	23	60.66	17 59
13.51	39	24.72	8 43	16.29	35 1	70.37	5 11	16.29	59	99.82	8 05	15.99	48	26.99	6 01	14.74	23	60.69	10 44
16.29	41	25.14	0 02	16.01	2	70.58	9 59	14.89	37 0	0.05	8 37	16.20	49	27.30	1 13	16.29	23	60.78	18 49
15.52	41	25.32	0 54	14.49ne	4	71.04	8 28	15.15	5	1.30	3 55	13.34	51	27.81	6 28	15.24	25	61.30	18 07
13.69	42	25.40	4 57	13.16	12	72.98	1 47	16.29	5	1.30	6 19	15.70	52	28.01	4 37	16.29	25	61.31	19 21
15.86	43	25.80	4 53	15.91	14	73.48	8 02	16.29	6	1.49	6 34	14.59	53	28.16	9 09	15.91	26	61.44	12 03
14.59	45	26.34	4 16	16.29	15	73.77	2 46	15.65	7	1.76	9 30	15.52	54	28.39	0 53	11.69	29	62.35	18 54
15.30	47	26.65	7 08	15.83	17	74.24	7 51	16.29	8	2.07	2 50	14.59	54	28.58	6 31	15.96	31	62.86	11 20
15.09	48	26.97	4 58	13.16	18	74.54	9 07	16.20	11	2.64	6 34	15.57	55	28.70	6 04	15.24	34	63.59	10 27
15.70	50	27.51	7 51	15.83	22	75.41	4 28	16.29	15	3.80	9 56	14.95	55	28.77	8 45	15.57	39	64.70	14 37
16.29	54	28.43	5 10	15.15	23	75.68	2 42	16.20	16	4.10	6 31	15.96	58	29.47	3 58	13.51	45	66.13	17 24
12.98	57	29.29	7 37	15.15	27	76.73	5 29	15.83	21	5.29	0 02	14.31	59	29.79	0 21	16.29	45	66.17	18 14
13.69	39 3	30.69	9 08	16.29	27	76.76	8 51	16.29	27	6.77	3 08	14.40	39 0	29.93	5 40	16.20	46	66.59	13 06
13.51	5	31.27	0 59	15.01	32	77.94	8 27	16.29	29	7.26	2 38	15.99	0	30.09	2 07	14.28	47	66.82	12 11
16.29	6	31.54	2 36	16.29	40	79.94	8 58	12.98	32	8.08	4 58	14.28	5	31.27	0 21	14.89	50	67.56	10 20
16.29	8	31.89	5 08	11.13	44	80.89	+2 09	15.18	33	8.37	9 46	16.04	5	31.37	2 56	15.52	53	68.27	10 50

25 prec. + 77 sec. — 6′ 29″.

851—900				901—950				951—1000				1001—1050				1051—1100			
Int. magn.	a	x	y—0′	Int. magn.	a	x	y—0′	Int. magn.	a	x	y—0′	Int. magn.	a	x	y—0′	Int. magn.	a	x	y—0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.99	34 57	69.31	18 15	13.69	36 38	94.62	15 24	15.38	38 3	15.77	14 22	16.29	34 17	59.26	23 12	14.34	35 58	84.45	22 02
15.96	58	69.48	15 39	12.06	39	94.74	18 57	12.98	5	16.13	16 33	15.30	20	59.99	28 16	15.83	36 1	85.18	27 40
15.94	35 0	69.87	10 19	14.18	41	95.16	13 46	15.52	11	17.82	15 19	15.32	26	61.59	25 47	13.51	1	85.29	28 59
15.24	0	70.04	16 53	14.59	41	95.36	16 54	15.46	11	17.87	17 40	16.29	28	62.01	29 03	15.65	3	85.79	29 45
15.70	2	70.43	19 08	15.38	46	96.39	18 41	16.20	14	18.41	13 45	16.29	29	62.37	26 41	15.38	5	86.18	27 16
16.04?	2	70.46	13 23	14.24	48	97.01	15 42	15.86	17	19.25	16 41	13.51	31	62.77	22 31	15.60	5	86.27	27 40
14.49	3	70.68	13 46	14.80	49	97.13	15 57	15.83	18	19.48	13 15	16.29	32	63.10	28 00	14.18	7	86.77	21 47
13.34	4	71.04	15 09	15.86	49	97.21	18 38	14.34	20	19.92	18 02	12.98	32	63.11	24 21	15.32	8	86.90	25 32
15.86	5	71.17	18 57	16.04	49	97.33	15 09	15.30	21	20.28	12 47	15.52	33	63.25	29 48	16.29	9	87.17	28 40
16.29	5	71.21	11 18	15.99	50	97.44	12 34	13.16	23	20.83	13 16	15.15	38	64.58	25 46	13.16	10	87.49	28 33
15.78	8	71.90	11 09	14.34	53	98.33	14 46	11.75	26	21.42	16 17	15.73	39	64.69	29 19	16.29	10	87.50	26 00
13.51	9	72.34	17 39	16.20	56	98.94	14 27	15.15	28	22.09	10 34	16.04	40	65.08	23 16	16.04	10	87.55	23 07
10.77	18	74.58	12 38	15.91	57	99.32	18 42	16.04	31	22.80	15 02	16.29	40	65.10	25 06	14.74	11	87.87	22 23
15.38	19	74.75	17 10	12.98	58	99.62	11 34	15.15	32	22.91	11 41	15.86	44	66.00	21 01	15.81	18	89.52	29 57
15.01	22	75.46	11 35	14.49	37 7	1.83	12 02	15.30	32	23.03	16 32	16.29	45	66.29	20 56	15.04	20	89.99	25 53
15.70	24	75.95	19 08	15.99	9	2.31	17 04	16.29	35	23.71	11 22	15.70	47	66.83	28 22	15.96	22	90.47	21 02
16.04	25	76.32	15 19	16.29	10	2.53	19 21	15.32	36	23.89	11 28	16.29	51	67.86	23 02	15.73	22	90.47	24 56
13.16	27	76.83	17 24	14.43	11	2.63	17 50	16.20	37	24.33	17 11	16.29	52	67.98	22 16	13.34	22	90.48	21 34
12.46	29	77.26	15 29	15.18	12	2.91	15 12	14.49	39	24.64	16 59	16.29	55	68.77	22 05	12.98	25	91.19	25 40
15.30	31	77.73	14 42	15.78	16	4.04	10 19	16.29	39	24.82	18 50	14.18	56	69.03	20 28	13.16	28	91.99	22 14
14.02	33	78.31	15 06	15.60	17	4.15	17 29	14.95	39	24.84	16 53	15.38	58	69.41	24 37	15.04	29	92.34	24 24
15.73	35	78.65	13 37	15.15	17	4.21	18 23	15.46	39	24.86	18 02	15.83	59	69.63	20 46	16.29	32	92.99	26 21
13.85	41	80.22	10 35	16.29	19	4.74	18 41	16.29	40	24.99	12 51	15.83	59	69.65	27 08	15.15	33	93.27	28 43
12.98	47	81.72	18 54	14.34	22	5.47	10 32	14.24	43	25.75	12 44	10.61	35 0	70.02	27 34	16.29	35	93.66	20 36
15.65	48	81.95	11 17	15.73	23	5.80	12 41	13.34	43	25.78	18 06	14.18	0	70.11	28 13	16.29	38	94.55	27 24
16.04	52	82.95	15 00	15.24	24	5.89	15 33	14.49	44	25.90	18 27	15.60	7	71.64	23 38	13.69	40	95.07	24 31
15.52	52	83.01	18 36	15.83	24	6.10	19 18	13.34	47	26.69	15 56	13.27	11	72.69	20 08	15.38	42	95.43	28 25
16.29	52	83.10	14 52	16.29	27	6.66	15 58	16.29	48	26.91	16 05	15.46	13	73.25	24 50	16.29	45	96.20	20 24
16.04	52	83.10	13 09	16.20	28	6.99	16 09	16.29	48	27.11	19 38	16.29	14	73.55	27 40	15.01	47	96.75	27 19
15.70	56	84.05	17 14	13.85	28	7.12	11 03	16.20	54	28.40	12 26	16.20	16	74.01	29 28	15.99	48	97.04	24 00
14.02	58	84.39	17 42	12.98	30	7.39	10 53	16.04	54	28.41	12 00	16.29	16	74.08	26 05	14.02	48	97.10	29 09
16.04	36 2	85.59	19 20	16.20	30	7.58	11 31	15.07	54	28.48	19 39	16.04	18	74.42	25 16	13.51	49	97.24	27 23
16.29	3	85.79	11 34	13.16	31	7.71	19 06	13.34	54	28.57	14 15	16.20	18	74.54	24 32	16.20	52	97.91	22 55
15.15	4	85.95	17 37	16.20	31	7.79	18 53	16.29	57	29.28	16 27	15.01	19	74.76	23 56	14.74	52	97.93	21 18
16.29	5	86.29	18 10	15.57	33	8.18	18 30	13.51	59	29.72	18 03	15.65	20	75.08	21 37	16.29	52	97.97	21 32
16.29	9	87.30	18 46	16.29	34	8.47	14 30	15.86	39 0	30.05	11 51	15.70	25	76.21	25 53	16.29	52	98.03	29 58
12.98	12	88.06	15 33	15.65	35	8.65	19 22	16.29	1	30.31	16 37	15.52	25	76.28	20 41	15.99	52	98.09	26 39
15.52	12	88.09	15 03	14.53	39	9.87	19 46	14.89	3	30.87	10 27	14.80	27	76.75	28 35	15.01	53	98.31	27 59
16.29	13	88.26	17 51	16.29	40	10.03	15 49	16.29	5	31.18	13 05	15.52	29	77.35	25 57	13.34	54	98.46	23 52
16.20	13	88.27	14 19	13.85	41	10.27	13 24	15.44	5	31.33	16 26	16.04	30	77.56	20 54	15.24	57	99.24	22 06
15.30	15	88.86	17 39	16.29	44	11.09	11 10	16.29	9	32.17	17 08	15.38	31	77.84	21 47	15.46	58	99.50	24 04
12.98	17	89.26	13 16	15.70	45	11.36	18 54	12.98	9	32.36	24 24	11.91	31	77.85	20 22	15.99	37 1	0.26	26 49
15.70	17	89.28	13 06	15.30	45	11.37	14 38	16.29	11	32.85	13 58	15.32	32	77.92	24 18	13.16	1	0.31	22 31
15.91	19	89.78	17 03	13.95	47	11.63	18 23	15.52	33 57	54.36	26 14	16.20	32	77.94	29 08	14.02	3	0.72	24 43
15.32	25	91.27	15 57	15.30	51	12.78	11 34	16.29	34 5	56.15	29 16	16.20	32	78.04	26 39	16.20	4	0.93	28 06
14.95	26	91.46	19 43	13.85	55	13.78	16 59	12.98	5	56.30	28 50	16.04	35	78.86	24 28	16.29	6	1.43	25 23
15.78	26	91.59	18 24	16.04	57	14.25	11 24	16.29	10	57.54	23 11	15.44	37	79.14	22 54	15.91	8	1.93	27 47
15.91	29	92.22	17 44	15.96	58	14.43	18 58	15.04	12	57.94	27 31	15.78	39	79.64	29 28	13.85	12	3.02	27 10
16.29	34	93.61	19 18	15.70	59	14.74	15 23	16.04	16	58.90	20 16	14.34	53	83.26	21 24	15.86	13	3.20	26 04
15.46	37	94.13	13 32	15.83	38 1	15.31	10 50	15.46	16	58.91	20 46	16.04	54	83.49	29 46	15.62	14	3.62	29 26

25 prec. + 77 sec. — 6′ 29″.

1101—1150				1151—1200				1201—1250				1251—1300				1301—1342			
Int. magn.	α	x	y—o′	Int. magn.	α	x	y—o′	Int. magn	α	x	y—o′	Int. magn.	α	x	y—o′	Int. magn.	α	x	y—o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.29	37 16	4.03	23 17	14.89	38 48	27.03	22 18	15.57	34 59	69.70	37 20	12.98	36 24	90.88	31 48	15.70	37 59	14.80	38 26
12.98	16	4.09	28 51	15.78	49	27.37	28 47	12.98	59	69.87	37 07	15.65	24	90.90	33 32	12.06	38 0	15.11	33 45
13.69	17	4.14	25 18	15.70	51	27.77	26 45	15.46	35 1	70.18	32 32	15.57	25	91.36	34 43	16.04	3	15.80	36 22
16.29	22	5.51	20 17	13.27	52	27.88	29 14	13.34	1	70.24	31 58	15.99	26	91.44	38 33	13.16	4	16.03	37 58
15.70	26	6.40	28 12	13.62	53	28.19	20 10	15.18	3	70.86	31 57	13.34	28	92.10	36 41	16.29	6	16.42	30 23
15.32	26	6.58	22 23	14.34	55	28.75	28 17	16.04	6	71.55	34 50	15.44	31	92.85	39 39	16.29	6	16.45	38 46
16.29	33	8.18	29 56	15.57	56	29.09	29 16	15.24	6	71.62	32 26	16.29	35	93.75	36 23	16.29	9	17.24	37 23
16.29	34	8.58	28 22	16.29	56	29.10	25 26	15.65	7	71.64	38 37	16.29	37	94.24	38 23	15.38	15	18.82	34 14
14.34	35	8.66	27 36	15.24	59	29.66	22 19	16.29	7	71.67	37 47	15.91	40	94.94	34 39	15.96	16	19.04	36 58
15.60	36	9.05	24 58	15.91	39 0	30.08	23 26	14.65	7	71.76	33 34	16.29	43	95.63	33 17	10.94	17	19.22	31 20
16.29	38	9.47	21 26	14.18	2	30.45	25 03	15.78	9	72.21	38 28	15.65	44	95.88	35 38	16.29	17	19.34	38 43
15.91	41	10.29	26 05	14.18	6	31.49	26 03	13.95	9	72.23	34 46	15.09	45	96.37	39 31	15.32	20	20.07	35 55
15.30	42	10.42	24 48	15.60ne	12	32.98	27 56	13.51	16	74.05	37 51	13.34	46	96.60	33 10	13.16	21	20.23	33 59
16.29	43	10.71	27 43	16.20	12	32.99	24 58	15.99	17	74.21	39 15	12.98	48	96.91	33 32	14.28	22	20.42	36 14
16.29	43	10.78	29 21	16.04	33 54	53.42	37 54	16.29	19	74.67	34 55	15.99	51	97.68	32 14	16.04	23	20.73	32 55
14.34	46	11.56	21 56	14.89	55	53.65	31 56	13.51	20	74.94	33 39	16.20	51	97.74	30 04	16.29	23	20.84	32 49
15.04	48	11.91	21 48	15.83	55	53.85	32 34	16.29	21	75.29	32 31	16.04	51	97.74	32 30	15.32	24	21.01	38 04
12.98	53	13.34	26 05	16.29	56	53.93	33 14	16.29	22	75.60	36 42	16.04	53	98.19	37 14	14.18	25	21.15	31 07
15.83	56	13.99	28 37	14.34	57	54.24	32 04	15.24	25	76.24	33 02	16.29	37 2	0.59	31 09	13.69	26	21.61	38 47
14.65	57	14.17	23 11	16.29	34 2	55.39	31 20	16.29	29	77.35	38 17	16.29	3	0.85	30 14	15.30	29	22.36	34 05
14.77	57	14.28	29 58	15.83	4	55.94	32 47	16.29	31	77.63	32 37	16.29	8	2.07	36 34	15.60	31	22.70	37 00
15.60	38 4	15.89	26 35	15.70	6	56.56	37 44	14.74	34	78.49	33 53	13.34	9	2.33	32 04	16.29	32	23.02	35 23
16.29	8	17.02	20 10	16.29	10	57.53	38 47	15.32	35	78.70	38 05	14.59	10	2.42	31 31	16.29	33	23.16	34 55
11.22	9	17.20	23 54	15.73	11	57.68	38 12	15.18	36	78.92	38 45	14.43	11	2.69	30 31	16.29	33	23.36	34 59
13.16	10	17.58	23 10	13.69	12	57.94	34 17	16.29	40	79.91	31 04	12.80	16	3.89	37 19	14.18	36	23.92	35 02
16.29	12	18.03	28 33	15.96	13	58.18	36 59	15.52	40	80.02	38 32	16.20	16	4.01	34 52	16.29	38	24.41	38 11
15.32	15	18.64	21 23	15.91	14	58.60	35 39	14.80	43	80.80	30 19	15.30	16	4.04	31 14	15.96	40	25.02	37 52
16.20	15	18.84	23 20	16.29	15	58.85	31 33	15.09	45	81.22	35 29	12.46	17	4.30	38 09	14.65	42	25.61	34 18
16.29	17	19.32	25 34	16.20	18	59.41	38 33	12.06	46	81.48	36 48	15.09	18	4.60	39 32	16.29	42	25.62	33 18
16.29	18	19.54	27 36	15.91	18	59.42	37 16	16.29	48	81.92	38 20	15.91	20	4.99	30 49	15.44	43	25.66	39 53
15.24	23	20.64	29 06	15.83	23	60.86	38 04	16.29	48	81.99	32 42	15.91	23	5.79	31 25	12.98	46	26.61	35 18
15.32	24	20.90	21 02	15.60	24	61.08	38 04	13.51	48	82.01	39 18	14.89	23	5.82	39 27	15.78	49	27.19	33 15
10.19	24	21.02	22 48	14.56	24	61.12	39 54	13.16	52	82.88	38 58	14.86	27	6.68	33 12	15.15	54	28.61	32 04
15.83	26	21.62	26 03	16.29	25	61.36	34 09	15.99	52	83.00	38 26	15.60	27	6.70	36 26	16.29	56	29.07	38 12
15.09	26	21.62	28 18	16.29	27	61.67	34 57	16.29	54	83.61	31 26	11.08	33	8.22	36 17	16.29	39 0	29.92	35 56
12.61	27	21.72	24 18	15.57	30	62.60	33 05	15.65	55	83.71	38 53	16.29	34	8.38	30 50	13.69	0	29.98	34 08
15.86	28	22.02	23 08	11.08	31	62.80	37 00	15.52	56	84.02	36 30	14.71	35	8.67	37 51	16.29	1	30.26	38 13
15.46	28	22.03	26 31	12.98	35	63.77	37 34	16.20	36 2	85.60	30 00	16.29	35	8.77	36 13	15.46	2	30.49	36 39
15.73	29	22.28	20 58	13.69	36	63.99	31 18	14.18	5	86.19	36 57	15.44	37	9.30	32 35	15.18	3	30.66	37 12
16.29	30	22.50	23 06	13.69	37	64.19	36 07	15.65	11	87.65	35 12	16.29	39	9.67	34 17	14.95	5	31.25	36 36
15.46	31	22.81	23 59	15.01	45	66.36	37 22	16.29	11	87.71	38 16	14.71	40	10.06	37 43	15.60?	6	31.47	38 32
16.20	32	23.09	25 59	14.65	46	66.43	38 45	16.04	12	87.91	30 18	13.34	41	10.27	30 40	14.95	7	31.64	36 40
16.04	34	23.51	25 10	12.98	50	67.60	30 49	16.29	13	88.17	35 30	16.29	42	10.47	36 05				
15.09	37	24.19	23 33	16.29	52	67.90	37 51	12.98	13	88.33	34 01	15.86	42	10.47	37 43				
16.29	40	24.90	23 38	15.52	52	68.04	37 02	15.78	14	88.47	33 41	13.69	43	10.67	30 33				
9.62	40	25.07	28 25	16.20	53	68.17	34 38	15.46	15	88.82	32 02	16.20	48	11.96	37 51				
15.83	43	25.73	22 39	14.49	53	68.29	35 26	15.78	16	89.07	36 05	14.18	52	12.88	32 56				
16.04	44	25.94	23 30	10.75	54	68.46	36 50	16.29	17	89.28	39 13	15.09	54	13.56	35 55				
16.20	47	26.69	25 34	15.73	56	69.07	39 30	16.29	20	89.94	31 14	15.15	58	14.45	34 28				
14.71	48	26.95	25 24	15.01	57	69.26	38 07	8.82*	20	89.94	31 58	16.04	59	14.65	33 56				

25 prec. + 77 sec. — 6′ 28″.

Area 107. Centre for 1900: $15^h 34^m 0° 0'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.36	31 25	61.15	34 31	15.43	32 46	81.60	35 58	16.02	34 28	7.00	36 58	16.02	36 13	33.29	35 00	15.00	33 8	87.04	20 23
11.26	30	62.45	32 15	14.49	48	82.05	34 40	14.92	28	7.06	37 21	15.21	13	33.36	35 49	14.49	9	87.12	28 03
13.45	31	62.84	31 47	15.43	50	82.38	31 28	13.99	31	7.67	34 49	14.58	16	33.99	34 13	14.92	10	87.42	23 29
15.68	32	62.99	30 32	15.47	50	82.55	38 38	15.47	33	8.16	36 17	12.03	20	34.92	36 03	16.02	15	88.66	24 25
14.15	34	63.50	37 28	15.21	51	82.72	34 30	9.78	33	8.21	34 49	15.68	23	35.66	38 18	15.77	17	89.32	25 56
15.34	34	63.56	36 10	14.58	52	82.90	32 39	14.79	33	8.29	39 21	12.83	24	35.99	34 00	15.64	18	89.46	28 00
15.00	36	63.89	36 24	15.68	53	83.34	36 58	15.00	33	8.30	35 29	15.47	26	36.57	38 48	15.77	19	89.73	23 21
15.64	36	63.94	33 01	16.02	56	83.94	38 45	15.34	36	8.99	33 19	15.47	27	36.65	37 57	15.21	26	91.62	22 30
15.64	44	66.04	34 33	12.83	56	84.01	39 35	14.79	37	9.29	36 49	15.47	31	37.64	34 46	13.04	29	92.28	27 44
14.41	46	66.46	36 39	15.00	59	84.72	37 21	13.25	39	9.69	36 59	15.00	31	37.72	38 01	15.64	34	93.43	28 43
13.04	50	67.59	39 47	13.66	59	84.73	37 44	14.92	39	9.78	33 02	15.34	31 16	59.04	21 07	10.88	40	94.87	28 20
12.07	51	67.82	34 34	16.02	33 1	85.27	32 02	14.41	40	10.01	34 28	15.30	18	59.59	20 20	13.66	48	96.90	25 54
15.68	52	68.00	33 06	13.99	2	85.40	33 06	14.49	42	10.61	31 45	16.02	22	60.40	20 18	14.79	49	97.29	24 38
15.93	52	68.08	36 15	14.07	2	85.54	32 09	14.15	43	10.70	33 39	14.62	28	61.99	25 51	13.25	49	97.32	27 24
15.68	53	68.16	37 39	16.02	3	85.68	38 53	14.83	45	11.35	39 08	15.68	29	62.24	29 36	15.34	49	97.35	23 30
15.26	57	69.15	36 29	14.92	10	87.41	36 27	16.02	49	12.16	38 05	15.26	30	62.44	25 46	14.92	50	97.43	23 01
15.68	58	69.41	35 01	15.43	11	87.69	37 15	10.72	49	12.17	32 01	13.25	37	64.16	23 58	15.17	53	98.34	29 40
15.00	58	69.41	39 59	15.77	11	87.81	39 42	12.39	50	12.46	38 42	15.43	37	64.27	21 31	13.25	34 1	0.31	22 25
14.62	32 0	70.08	35 06	13.04	12	87.92	32 04	14.92	53	13.23	32 47	15.93	50	67.53	21 32	15.21	1	0.37	21 02
11.64	1	70.20	33 10	16.02	12	88.01	39 55	14.92	54	13.58	34 23	9.80[1]	53	68.23	21 07	16.02	7	1.83	21 45
15.00	2	70.56	39 37	14.79	17	89.18	39 19	12.15	54	13.61	38 00	11.18[1]	53	68.33	21 06	14.79	7	1.85	26 28
12.39	2	70.58	34 31	14.20	18	89.60	37 05	15.43	56	13.93	39 02	14.49	56	68.92	24 15	15.43	10	2.43	20 57
13.99	6	71.48	35 29	12.00	22	90.46	32 33	13.66	59	14.71	33 27	15.77	57	69.20	24 45	15.21	10	2.45	27 30
15.26	8	72.08	32 04	15.00	25	91.19	30 22	13.25	35 1	15.20	35 14	13.66	32 1	70.37	23 57	15.55	13	3.25	26 50
15.26	9	72.23	35 51	15.13	26	91.58	36 36	15.64	2	15.38	31 07	15.34	6	71.43	21 27	15.34	13	3.32	25 41
14.92	9	72.24	38 55	15.34	30	92.53	38 07	13.04	2	15.41	36 32	16.02	6	71.43	28 22	16.02	14	3.52	26 10
15.13	9	72.26	30 17	15.26	31	92.74	34 39	15.77	2	15.55	39 49	15.55:	6	71.45	29 00	12.22	16	4.01	29 31
15.13	11	72.77	38 13	13.45	31	92.76	36 06	14.49	8	17.07	31 14	13.66	11	72.77	27 15	15.85	17	4.13	29 23
14.79	11	72.79	31 23	13.54	32	92.96	39 42	16.02	10	17.40	32 58	16.02	13	73.14	28 11	15.21	21	5.26	22 25
14.36	13	73.19	31 37	14.20	36	93.89	31 23	15.21	14	18.57	35 21	15.47	20	75.09	25 07	16.02	23	5.70	27 30
14.70	15	73.64	31 07	15.77	37	94.19	39 54	8.31	16	19.12	35 17	15.21	28	76.93	20 11	16.02	24	6.03	28 53
14.92	16	74.09	38 40	14.20	38	94.40	37 07	13.04	18	19.47	36 59	12.05	30	77.60	21 47	15.43	28	6.95	20 46
15.26	19	74.66	30 58	15.93	42	95.42	31 17	14.92	21	20.26	34 23	15.77	35	78.77	24 44	15.47	33	8.18	28 17
15.77	20	74.89	30 57	15.55	48	97.06	39 22	15.47	24	20.98	34 32	13.17	38	79.46	22 43	15.43	35	8.80	28 18
8.35	20	75.07	33 19	15.68	52	98.04	38 25	15.93	39	24.84	37 40	16.02	40	79.94	28 32	15.26	35	8.81	23 22
14.62	21	75.20	30 24	11.08	56	98.96	31 12	15.43	43	25.68	35 51	15.47	40	80.06	24 55	14.53	36	8.95	29 30
13.66	21	75.25	36 06	15.64	58	99.46	36 10	15.00	43	25.82	31 06	15.26	41	80.24	25 36	14.07	37	9.19	29 32
15.00	26	76.38	30 36	15.93	34 0	0.05	38 03	15.34	44	26.01	35 09	13.25	42	80.43	23 37	12.38	37	9.30	22 44
11.38	26	76.46	30 24	15.34	4	0.91	36 45	14.49	46	26.52	35 15	15.34	42	80.44	29 41	15.55	37	9.33	24 46
16.02	29	77.17	38 27	15.34	7	1.67	35 57	12.37	49	27.13	31 07	14.36	48	81.93	26 14	15.93	40	10.00	22 37
14.62	29	77.26	36 33	15.00	11	2.80	33 51	15.34	50	27.50	34 19	15.68	49	82.33	22 34	15.47	41	10.29	26 24
15.43	31	77.62	37 38	14.70	14	3.54	32 27	14.36	55	28.85	31 54	14.83	49	82.34	24 05	15.64	42	10.60	25 39
14.92	33	78.22	30 27	16.02	17	4.19	39 23	14.83	58	29.51	31 06	11.78	50	82.43	27 43	15.77	45	11.26	28 00
14.70	35	78.83	37 15	14.58	18	4.46	39 58	15.93	58	29.62	36 39	15.93	52	83.07	29 06	14.79	52	12.98	21 44
16.02	36	78.87	38 53	14.07	19	4.71	32 03	16.02	36 5	31.37	34 27	13.58	55	83.63	23 31	15.47	53	13.19	25 13
14.49	41	80.15	31 29	16.02	19	4.74	34 39	15.21	8	31.98	36 37	15.26	58	84.54	24 02	15.26	53	13.32	24 07
15.43	41	80.32	35 58	14.28	20	5.10	35 12	15.21	10	32.41	33 59	14.62	33 0	84.94	27 38	14.96	57	14.32	29 59
15.64	44	81.07	31 26	15.09	22	5.42	30 06	14.49	10	32.58	34 59	15.43	3	85.75	27 50	15.93	58	14.59	22 32
14.92	44	81.11	35 36	15.43	22	5.49	39 08	15.13	11	32.68	35 32	15.26	4	86.01	20 29	15.47	59	14.85	28 23
15.17	45	81.35	30 05	15.47	23	5.84	36 14	15.21	12	32.98	38 46	15.47	4	86.01	20 07	15.26	35 0	14.88	20 25

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[1] Measured separately in short exposure.

25 prec. + 77 sec. — 4′ 59″.

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.77	35 6	16.50	27 49	15.77	31 40	65.08	19 25	12.39	33 38	94.44	12 29	16.02	36 25	36.27	17 15	14.92	33 29	92.29	5 09
13.78	7	16.74	22 09	15.77	40	65.11	12 24	14.92	40	94.91	13 55	12.22	30	37.45	15 29	11.56	29	92.29	3 46
16.02	9	17.20	22 11	15.34	42	65.46	15 24	14.62	42	95.60	16 11	16.02	31 25	61.35	5 19	14.07	32	93.04	6 39
15.26	12	18.07	21 17	15.55	44	66.03	14 03	15.21	43	95.69	19 46	13.58	31	62.86	2 39	15.30	32	93.06	0 30
14.28	14	18.52	28 12	14.70	55	68.71	16 13	15.30	54	98.47	19 49	15.55	32	63.08	0 24	15.47	35	93.79	8 10
15.47	15	18.81	21 51	16.02	56	69.07	12 19	15.00	54	98.60	16 05	15.13	35	63.77	2 49	13.54	35	93.82	0 10
15.68	16	19.08	25 15	14.79	58	69.62	13 39	14.58	57	99.33	19 36	12.96	38	64.56	1 13	15.13	39	94.80	0 38
15.26	17	19.17	21 51	15.47	59	69.79	13 35	14.92	59	99.68	16 19	11.56	38	64.56	5 14	12.52	42	95.60	4 51
15.00	19	19.74	26 53	15.93	32 5	71.32	18 00	13.25	34 1	0.26	15 57	14.96	40	65.08	0 01	12.83	43	95.78	2 55
12.83	23	20.77	22 48	15.77	9	72.22	15 21	14.79	2	0.55	18 45	12.21	41	65.24	9 54	15.77	44	95.92	6 20
16.02	23	20.84	25 20	15.73	9	72.36	10 14	15.26	4	1.08	18 28	15.43	42	65.60	4 03	15.13	45	96.27	6 37
14.62	23	20.87	20 37	14.62	16	74.04	10 51	15.47	17	4.27	13 53	15.13	48	67.09	2 34	15.55	46	96.60	0 10
15.68	24	21.01	25 28	15.05	18	74.60	12 14	15.26	18	4.52	14 33	12.61	54	68.51	1 55	15.77	51	97.67	9 25
16.02	31	22.63	27 41	15.47	19	74.68	14 01	15.47	18	4.56	12 45	15.64	55	68.68	5 59	12.52	34 7	1.80	6 33
15.77	32	22.87	26 54	13.58	22	75.49	11 28	11.91	21	5.14	10 01	14.36	57	69.23	3 53	11.52	12	2.95	5 53
14.41	32	22.95	24 20	15.55	23	75.76	19 27	15.47	32	8.08	10 19	15.00	32 3	70.77	9 59	14.07	12	2.99	6 21
14.07	33	23.29	24 32	15.93	28	77.02	16 13	15.64	33	8.19	11 34	15.64	7	71.76	3 13	14.20	22	5.42	3 02
14.07	35	23.67	24 39	13.86	42	80.49	11 33	15.34	33	8.19	19 52	15.47	8	71.94	1 13	15.21	27	6.79	9 25
15.26	37	24.32	21 48	15.26	43	80.74	18 59	15.21	37	9.16	16 22	15.43	10	72.61	4 46	12.15	31	7.63	7 05
15.13	37	24.32	27 57	15.77	47	81.76	16 38	15.77	37	9.25	15 01	14.41	14	73.57	9 07	15.43	31	7.83	7 29
16.02	38	24.48	26 41	15.47	47	81.86	11 44	15.00	39	9.78	14 23	14.28	15	73.70	8 20	16.02	42	10.62	1 29
14.92	39	24.64	27 58	16.02	48	81.91	17 35	15.47	41	10.24	12 35	15.34	20	74.96	8 23	15.43	43	10.85	8 08
14.79	40	24.96	26 21	14.58	48	82.01	16 46	15.47	47	11.79	17 27	12.68	36	79.00	4 46	10.81	45	11.19	0 19
15.21	45	26.28	29 58	14.28	49	82.23	18 05	15.26	48	11.93	18 41	16.02	38	79.48	2 28	13.95	46	11.60	8 38
15.34	45	26.35	20 34	15.47	53	83.28	14 39	15.64	51	12.72	16 47	16.02	38	79.55	4 56	14.62	49	12.14	0 38
15.47	49	27.21	22 50	15.26	55	83.64	16 03	14.20	55	13.67	16 38	15.47	39	79.70	2 15	15.47	53	13.17	3 50
11.24	52	27.91	27 04	15.34	55	83.65	15 15	15.26	56	14.09	16 23	14.88	40	79.94	9 39	15.77	56	14.07	6 29
15.21	53	28.23	28 21	15.43	55	83.76	15 49	11.46	35 5	16.17	18 19	16.02	42	80.43	7 30	15.55	35 0	15.08	3 06
15.64	54	28.54	25 49	15.21	56	83.88	10 28	14.28	8	17.09	11 37	16.02	45	81.28	0 03	15.55	1	15.21	0 55
16.02	54	28.55	29 05	13.66	57	84.15	13 39	15.93	11	17.66	10 08	15.77	47	81.77	2 54	15.93	4	15.88	4 35
15.47	58	29.42	26 04	14 79	33 2	85.53	13 02	14.20	13	18.37	11 49	15.77	48	81.95	3 47	14.49	4	16.04	0 48
16.02	36 7	31.87	22 02	15.55	6	86.51	19 40	14.83	18	19.47	15 25	12.82	48	81.96	5 19	15.43	6	16.38	2 16
14.83	15	33.63	26 16	15.64	13	88.14	19 32	14.92	21	20.14	10 35	15.21	49	82.32	8 28	15.55	7	16.70	7 59
15.47	17	34.34	23 30	16.02	13	88.21	18 25	16.02	29	22.15	11 57	16.02	52	83.12	1 16	12.03	9	17.25	1 47
15.43	18	34.40	20 53	15.47	16	88.97	12 35	15.93	30	22.49	15 51	16.02	55	83.83	5 28	15.47	9	17.35	4 13
14.83	19	34.86	27 12	15.93	17	89.39	10 27	15.21	30	22.60	15 11	16.02	58	84.52	6 40	14.70	10	17.49	8 39
15.26	20	34.92	26 36	16.02	18	89.50	19 53	15.85	31	22.84	19 24	14.83	58	84.54	2 39	14.92	12	18.01	6 11
13.66	24	35.88	26 26	16.02	19	89.64	18 30	16.02	34	23.52	14 27	15.68	58	84.54	5 02	15.68	14	18.38	8 11
12.34	25	36.31	21 17	15.64	20	89.92	17 40	15.43	45	26.13	14 38	14.70	58	84.58	0 49	15.00	14	18.62	3 22
16.02	26	36.57	25 24	15.93	20	90.00	14 41	15.43	47	26.72	18 53	15.73	59	84.84	0 15	15.26	15	18.84	7 09
15.93	29	37.16	26 04	15.77	20	90.02	13 24	14.41	51	27.85	11 05	15.05	33 2	85.53	7 34	15.13	19	19.77	3 22
16.02	29	37.35	25 17	14.83	22	90.37	18 25	15.30	55	28.73	19 41	11.56	4	85.95	6 03	15.21	22	20.46	8 48
10.07	33	38.14	28 34	14.41	23	90.79	17 30	14.41	36 6	31.37	18 42	15.64	4	86.00	5 39	14.92	23	20.76	5 27
13.25	34	38.49	24 43	15.77	26	91.38	17 58	14.79	7	31.62	18 32	15.00	5	86.14	8 50	15.64	25	21.25	1 08
15.47	31 18	59.48	14 48	15.85	26	91.50	19 40	15.05	8	31.93	13 35	14.79	8	87.00	8 58	15.47	25	21.30	6 09
16.02	21	60.29	15 43	13.99	26	91.51	19 03	15.34	9	32.33	13 27	13.12	18	89.55	9 25	14.62	25	21.37	6 57
13.99	22	60.54	12 05	10.12	28	91.93	16 17	12.82	11	32.65	11 12	15.00	20	89.94	4 56	14.62	26	21.49	7 04
6.94*	26	61.46	13 47	13.66	32	93.06	14 33	13.37	13	33.19	14 02	15.00	23	90.65	1 59	14.79	28	21.95	3 22
14.92	32	62.88	12 35	15.55	33	93.12	17 03	15.05	14	33.41	13 26	15.43	23	90.68	7 55	15.13	28	22.08	4 38
15.47	34	63.38	15 13	15.00	35	93.73	15 34	13.66	17	34.29	18 27	15.34	26	91.44	7 29	14.41	30	22.51	4 29

25 prec. + 77 sec. — 4′ 58″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′	Int. magn.	α	x	y+o′
	m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″
14.20	35 35	23.66	−1 18	15.47	31 54	68.53	2 29	15.26	34 6	1.55	6 08	15.93	36 22	35.55	8 48	15.77	32 49	82.34	14 53
15.77	37	24.25	2 46	14.70	54	68.62	8 59	12.22	11	2.83	4 04	15.13	27	36.83	0 19	15.21	57	84.25	11 41
15.13	41	25.14	1 51	15.13	57	69.34	7 04	15.68	14	3.37	0 07	16.02	30	37.46	2 25	15.13	58	84.61	14 01
15.00	44	25.88	7 07	15.00	32 1	70.29	2 37	15.00	15	3.84	0 39	16.02	35	38.69	9 42	15.26	59	84.81	11 22
13.66	48	26.93	3 00	13.86	3	70.78	1 00	16.02	19	4.73	6 29	13.04	31 17	59.16	17 00	16.02	33 0	84.99	14 17
15.05	52	28.07	0 05	15.47	10	72.41	1 20	13.37	23	5.67	3 01	15.77	20	59.89	15 04	14.36	1	85.34	19 36
15.34	52	28.10	8 26	13.99	10	72.61	8 25	16.02	23	5.77	5 26	15.47	20	59.91	14 23	16.02	3	85.71	10 56
15.38	54	28.43	9 58	15.47	13	73.35	0 50	15.77	23	5.77	6 28	15.77	20	59.95	16 42	14.79	4	86.02	18 25
16.02	55	28.76	9 25	15.55	16	74.08	5 05	11.34	23	5.79	2 05	14.70	27	61.73	10 17	16.02	4	86.06	14 23
15.00	58	29.41	7 50	15.43	25	76.18	5 28	13.95	26	6.62	5 29	15.47	30	62.44	10 07	15.64	5	86.33	18 19
16.02	58	29.61	6 19	15.55	28	76.93	6 24	14.83	28	6.92	6 55	15.00	34	63.39	16 12	15.43	6	86.38	11 24
15.43	59	29.74	9 30	16.02	33	78.31	8 21	14.92	28	7.00	4 25	14.41	36	64.00	13 14	15.34	6	86.49	12 35
15.73	36 3	30.85	9 42	15.34	33	78.31	7 55	15.77	32	7.91	2 01	15.21	37	64.14	10 30	14.49	6	86.57	11 22
15.34	4	30.94	6 26	15.93	36	79.08	6 17	14.15	34	8.41	6 20	15.26	39	64.81	14 52	16.02	7	86.87	18 27
14.07	4	31.02	3 51	15.26	38	79.57	2 48	14.92	35	8.73	9 32	14.92	40	65.12	18 40	15.43	17	89.24	18 15
13.58	4	31.05	2 47	12.91	39	79.64	0 20	15.00	41	10.16	2 39	15.68	42	65.56	14 57	15.55	18	89.50	17 09
14.15	6	31.38	1 51	14.79	41	80.16	5 46	16.02	41	10.20	1 11	15.77?	43	65.85	13 26	16.02	21	90.16	12 11
15.34	8	32.11	5 53	13.99	45	81.29	2 25	13.58	43	10.67	5 54	15.77	44	65.96	18 29	15.21	24	90.88	18 00
15.47	10	32.55	6 03	14.15	55	83.74	4 41	12.18	43	10.81	1 25	14.49	45	66.22	15 51	13.66	25	91.31	18 36
15.05	10	32.60	3 12	16.02	59	84.83	2 35	15.93	48	11.94	9 00	13.37	46	66.61	19 15	13.66	30	92.48	17 14
14.20	14	33.46	9 05	15.77	33 0	85.06	9 24	15.47	48	12.03	0 46	16.02	52	67.94	18 31	15.34	33	93.30	13 42
13.04	14	33.57	3 59	13.66	8	86.93	6 04	15.64	50	12.60	6 40	16.02	53	68.26	19 26	16.02	34	93.48	18 25
15.05	16	34.10	3 08	13.70	9	87.32	0 23	15.30	51	12.78	9 55	14.92	56	68.93	18 34	15.47	35	93.69	11 03
15.47	17	34.30	6 56	15.21	9	87.33	3 04	15.34	55	13.68	6 27	15.05	56	69.10	19 09	10.11	37	94.37	16 07
14.79	18	34.50	9 15	16.02	13	88.21	5 46	15.64	57	14.17	8 25	16.02	58	69.59	16 10	13.86	39	94.79	19 59
14.49	19	34.67	2 26	15.34	14	88.52	6 04	13.99	58	14.40	1 59	16.02	32 1	70.28	16 14	16.02	39	94.87	13 58
15.47	21	35.19	5 30	15.43	15	88.72	5 40	15.58	35 0	14.97	2 05	15.00	6	71.57	18 09	14.36	43	95.75	13 51
13.99	23	35.86	6 34	15.55	17	89.25	8 37	15.05	3	15.65	4 06	15.26	6	71.62	13 27	15.64	52	97.93	10 56
15.05	31	37.65	2 03	15.34	22	90.39	6 43	14.58	7	16.66	0 24	14.28	7	71.70	12 33	15.43	52	97.94	14 53
15.34	31	37.72	6 55	12.22	22	90.50	5 51	16.02	9	17.18	2 22	11.56	8	71.88	14 37	15.26	58	99.42	11 05
13.99	35	38.70	−6 23	15.21	23	90.74	4 51	16.02	11	17.69	6 45	14.07	8	71.90	12 43	14.36	34 3	0.71	19 31
16.02	31 17	59.36	+7 46	15.13	24	90.90	5 14	14.92	28	21.99	6 04	15.77	9	72.33	13 33	14.58	4	1.04	12 24
16.02	20	59.97	6 19	15.68	24	91.00	8 27	14.75	30	22.52	0 31	15.64	10	72.38	17 32	16.02	7	1.84	10 26
15.55	22	60.55	2 52	16.02	25	91.25	5 09	16.02	31	22.81	2 30	8.55	10	72.60	10 01	15.26	15	3.81	12 54
15.05	24	61.06	5 24	11.24	27	91.70	1 33	15.55	32	22.99	5 05	13.04	12	72.91	16 14	15.93	17	4.26	19 20
14.07	25	61.16	4 55	13.66	29	92.18	6 55	14.92	33	23.22	4 29	15.77	12	73.02	18 54	15.26	17	4.31	12 43
15.68	25	61.34	5 57	15.77	33	93.19	7 18	14.83	35	23.84	5 04	15.55	15	73.79	16 19	16.02	22	5.61	11 04
15.47	28	61.94	8 51	15.05	33	93.20	6 05	15.93	35	23.87	6 19	15.47	20	75.02	17 03	15.68	23	5.81	16 34
12.54	29	62.16	5 54	16.02	36	94.08	6 33	14.41	37	24.29	2 12	12.07	22	75.38	18 38	15.26	27	6.67	15 13
16.02	29	62.36	4 57	15.34	39	94.69	6 47	15.21	42	25.41	2 34	15.64	27	76.84	18 58	15.34	29	7.36	16 28
15.26	30	62.47	3 46	15.05	42	95.59	8 48	11.16	46	26.55	3 22	15.93?	29	77.24	15 08	15.34	31	7.64	15 29
15.43	33	63.24	4 21	12.82	43	95.69	2 26	15.43	50	27.48	9 07	15.55	30	77.49	17 28	15.47	32	7.99	12 33
15.05	35	63.77	3 32	15.77	48	96.98	5 45	15.34	36 2	30.41	7 58	15.68	31	77.69	14 24	15.43	34	8.54	13 49
9.12	41	65.14	4 41	15.47	52	98.09	2 20	15.34	3	30.69	2 50	14.58	32	78.03	14 00	16.02	35	8.65	12 13
14.58	45	66.15	7 41	7.74*	55	98.68	1 00	15.00	5	31.28	8 49	13.45	35	78.85	18 20	14.79	35	8.70	19 35
15.55	47	66.63	8 13	11.36	55	98.85	5 43	16.02	11	32.68	8 19	14.20	36	79.12	16 53	15.34	35	8.80	12 35
16.02	48	67.11	3 45	15.64	56	99.07	0 38	15.68	14	33.53	5 43	15.05	39	79.72	12 35	15.93	38	9.62	15 29
15.68	49	67.14	9 37	16.02	34 2	0.46	3 39	15.00	15	33.77	4 56	14.49	44	81.12	19 04	13.25	42	10.59	16 34
13.66	49	67.14	1 12	14.92	2	0.51	5 06	15.34	16	33.96	5 14	13.95	46	81.62	14 40	13.58	43	10.64	13 31
15.77	49	67.36	+7 26	14.92	3	0.66	3 45	13.37	19	34.68	6 59	13.95	48	82.10	13 17	15.05	48	11.93	10 26

25 prec. + 77 sec. — 4′ 58″.

751—800				801—850				851—900				901—950				951—1000			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.77	34 50	12.51	16 23	15.47	36 36	38.93	12 06	14.62	33 24	90.93	22 49	16.02	35 15	18.76	23 01	13.25	31 36	63.93	36 16
16.02	51	12.79	17 30	14.79	31 17	59.29	29 53	13.58	26	91.45	20 02	14.62	17	19.15	20 49	16.02	38	64.52	38 04
14.70	57	14.26	11 07	15.26	19	59.84	28 51	15.47	26	91.50	23 12	15.00	17	19.17	20 40	12.83	39	64.82	38 31
15.00	57	14.36	13 57	15.47	20	59.89	21 37	15.00	28	91.88	20 22	14.83	21	20.32	25 54	13.99	49	67.30	31 51
15.47	58	14.47	17 13	15.68	20	60.08	24 30	15.77	35	93.84	20 34	14.20	21	20.34	20 56	13.37	50	67.60	34 31
15.26	35 1	15.26	15 39	14.83	21	60.23	23 57	16.02	36	94.08	24 48	15.68	24	20.99	21 27	16.02	53	68.30	31 34
15.64	3	15.86	12 35	15.34	25	61.31	24 35	15.13	37	94.22	27 18	15.34	30	22.42	24 52	16.02	59	69.74	33 17
15.05	5	16.15	15 23	12.83	26	61.43	21 27	16.02	41	95.27	28 27	13.99	31	22.73	25 22	16.02	32 0	70.00	33 54
15.21	7	16.66	12 22	15.13	31	62.85	26 22	16.02	44	95.97	26 45	15.77	33	23.23	24 16	13.78	4	71.03	36 28
14.20	7	16.75	13 20	15.77	40	65.01	21 16	15.43	46	96.38	28 01	15.26	35	23.63	27 47	15.47	4	71.10	32 06
13.54	8	16.98	11 31	11.89	40	65.03	26 26	15.34	46	96.55	24 50	15.93?	37	24.31	24 41	15.34	5	71.33	35 16
16.02	11	17.68	15 58	14.79	40	65.04	22 45	11.20	49	97.31	29 23	14.70	39	24.68	22 16	15.43	6	71.50	33 13
15.47	12	17.92	14 53	15.26	52	67.90	21 01	13.41	34 0	0.02	29 49	15.26	40	24.92	26 06	15.34	6	71.57	31 26
15.26	18	19.55	12 59	14.92	54	68.40	23 10	14.07	1	0.36	21 32	14.83	44	25.93	24 40	15.34	9	72.19	36 28
15.26	21	20.14	18 42	15.00	56	68.98	28 02	15.47	4	0.89	22 50	15.47	47	26.70	21 45	15.26	9	72.25	32 30
15.05	22	20.43	14 44	10.49	57	69.28	20 36	15.13	5	1.13	22 45	12.61	51	27.73	20 44	14.58	11	72.78	36 53
15.05	22	20.45	16 43	15.34	58	69.49	28 25	13.74	5	1.26	20 01	14.83	52	28.10	26 24	15.26	12	72.99	38 10
13.66	23	20.80	10 29	15.13	32 4	70.89	23 09	15.47	6	1.46	25 06	15.00	53	28.13	24 23	15.21	19	74.69	33 29
15.47	27	21.73	14 14	15.00	5	71.36	27 11	15.34	8	2.12	24 17	14.20	53	28.29	24 52	12.22	19	74.77	35 32
13.99	32	23.01	13 42	15.55	8	72.03	27 40	15.51	10	2.38	29 22	15.34	54	28.40	28 39	11.61	19	74.87	38 20
15.00	35	23.72	12 02	14.58	10	72.49	28 30	12.21	10	2.39	28 25	14.92	54	28.41	27 22	15.21	20	75.09	36 24
15.34	37	24.26	19 16	14.20	11	72.77	24 43	16.02	18	4.43	24 04	12.61	59	29.67	20 38	15.93	22	75.46	37 56
15.77	37	24.35	18 05	14.92	12	72.89	24 38	15.64	21	5.19	27 50	15.68	36 2	30.47	27 15	15.13	22	75.46	33 11
15.64	38	24.41	11 56	15.26	12	72.90	28 34	16.02	23	5.71	22 15	15.21	6	31.59	26 54	14.28	22	75.53	35 18
14.62	39	24.73	11 04	16.02	13	73.26	24 00	13.86	24	6.11	21 42	15.55	6	31.61	26 18	14.49	28	76.94	36 02
15.21	41	25.21	15 53	15.47	14	73.57	23 05	15.43	29	7.14	27 06	16.02	7	31.70	24 46	15.77	28	77.00	32 46
16.02	41	25.32	16 17	15.68	14	73.58	26 50	14.41	32	8.11	27 39	14.07	9	32.28	24 38	15.26	30	77.47	34 07
14.79	43	25.85	11 19	15.64	18	74.44	22 03	15.43	34	8.40	29 48	12.83	11	32.66	26 06	13.04	32	77.98	31 11
15.00	46	26.38	11 40	15.13	21	75.17	22 03	15.34	36	8.91	29 12	13.74	11	32.70	26 12	15.26	36	78.98	38 26
15.13	46	26.53	14 30	15.26	23	75.67	26 14	15.43	41	10.12	22 30	12.20	12	32.98	26 06	15.21	37	79.17	39 30
15.34	54	28.44	16 24	15.68	23	75.70	21 35	15.93	41	10.29	27 56	15.55	13	33.26	21 10	16.02	37	79.29	30 09
16.02	55	28.72	15 52	14.70	24	76.04	27 06	13.25	43	10.70	28 42	15.21	20	34.97	27 21	16.02	40	79.89	32 02
14.83	59	29.70	19 02	15.68	27	76.70	26 19	15.05	45	11.18	24 50	15.34	20	35.05	20 56	15.05	42	80.56	33 53
15.21	36 0	29.97	14 19	15.34	28	77.02	27 58	15.47	48	11.97	20 58	15.55	21	35.25	29 44	15.47	46	81.46	39 32
13.58	3	30.75	10 04	15.47	31	77.83	25 02	15.34	49	12.16	26 20	14.66	21	35.36	29 22	15.34	48	81.99	32 10
15.21	4	31.05	12 18	15.68	36	78.88	27 36	15.34	53	13.21	22 02	14.58	26	36.53	24 59	15.68	49	82.32	34 46
15.68	5	31.31	16 23	15.43	37	79.31	28 15	15.47	54	13.59	29 23	15.13	30	37.45	22 18	15.05	50	82.58	36 06
15.34	6	31.58	19 16	14.07	40	79.99	27 59	15.21	55	13.87	24 24	15.26	33	38.18	23 08	15.55	53	83.18	39 09
14.79	7	31.78	13 15	15.26	42	80.51	29 46	12.83	56	13.91	26 05	13.74	31 17	59.19	37 33	15.47	54	83.44	32 03
14.92	10	32.43	16 04	14.92	54	83.54	23 42	13.78	58	14.52	27 42	15.93	18	59.43	32 37	9.17	54	83.54	38 54
15.55	10	32.45	15 59	15.55	33 0	84.91	25 42	15.93	35 1	15.14	25 11	15.68	18	59.53	38 34	12.21	33 0	85.12	36 01
15.68	14	33.58	17 53	16.02	0	84.99	25 34	15.34	2	15.57	23 20	16.02	18	59.60	39 23	16.02	2	85.43	34 17
14.24	15	33.67	19 20	14.15	0	85.01	21 11	15.21	2	15.63	27 19	13.66	25	61.27	38 49	15.21	3	85.65	38 51
15.93	17	34.26	12 05	15.21	3	85.65	26 37	15.26	5	16.33	21 08	15.43	25	61.36	38 18	15.93	3	85.71	34 26
14.49	17	34.29	15 44	16.02	9	87.21	21 00	15.77	7	16.81	28 12	13.25	27	61.87	36 29	15.77	3	85.77	31 43
15.55?	19	34.71	10 47	15.55	11	87.75	25 16	15.09	8	16.98	29 47	16.02	29	62.17	36 52	15.93	6	86.54	30 00
15.47	20	35.01	14 24	10.81	13	88.21	27 45	14.92	8	17.03	20 34	11.37	31	62.72	30 01	13.17	9	87.12	30 13
13.66	21	35.23	10 57	16.02	13	88.29	21 00	13.66	9	17.23	21 52	11.98	33	63.29	38 22	10.64	10	87.43	35 03
16.02	26	36.51	10 10	13.25	14	88.53	23 28	15.68	11	17.71	28 45	16.02	35	63.72	33 26	12.61	11	87.82	38 32
16.02	30	37.53	10 28	15.26	17	89.21	23 30	14.28	14	18.56	26 17	15.26	35	63.83	35 16	15.21	16	88.97	31 34

25 prec. + 77 sec. — 4′ 58″.

15^h Area 107. $+0°$

1001—1020				1021—1040				1041—1060				1061—1080				1081—1094			
Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$	Int. magn.	α	x	$y+0'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.02	33 19	89.77	36 15	15.77	34 1	0.23	37 18	13.95	34 37	9.36	39 49	14.58	35 23	20.64	35 59	15.34	36 14	33.43	38 59
15.13	19	89.79	31 47	15.64	3	0.87	35 08	14.70	38	9.54	36 27	13.45	24	21.08	31 21	12.61	15	33.82	30 40
16.02	20	90.11	34 09	14.79	6	1.43	33 00	15.34	44	11.11	33 03	14.70	25	21.22	30 40	15.47	18	34.44	36 37
16.02	22	90.61	33 06	15.26	7	1.63	33 06	16.02	53	13.20	39 29	15.13	25	21.33	39 09	16.02	18	34.56	35 13
15.13	24	91.07	34 01	15.77	9	2.22	31 42	13.66	58	14.38	37 23	16.02	25	21.36	37 52	15.43	18	34.56	31 34
11.71	27	91.69	34 00	15.34	9	2.37	34 08	15.68	35 2	15.42	35 27	15.68	35	23.75	35 01	14.49	23	35.65	38 46
16.02	31	92.68	37 27	15.93	10	2.53	36 17	15.26	4	15.99	39 17	15.68	37	24.34	33 01	15.93	23	35.65	33 36
16.02	33	93.28	35 53	15.77	15	3.81	38 46	13.74	7	16.65	31 34	15.00	41	25.22	34 57	14 20	24	36.11	30 40
15.05	35	93.73	31 48	16.03	16	3.91	32 29	13.45	7	16.69	37 34	15.05	46	26.50	34 56	14.62	27	36.82	31 21
15.68	36	94.08	33 08	15.77	16	4.00	39 13	13.25	8	17.00	33 45	15.05	48	26.98	33 03	14.07	31	37.66	33 28
15.34	41	95.16	34 49	15.55	18	4.41	34 13	15.34	10	17.58	32 02	14.92	48	27.00	39 40	16.02	31	37.82	34 32
14.49	49	97.14	35 14	15.05	19	4.69	31 00	13.99	11	17.77	36 40	11.82	55	28.79	31 12	15.93	32	38.02	35 19
15.47	49	97.23	35 16	15.00	25	6.19	33 57	12.03	11	17.83	30 08	14.58	56	29.03	34 54	12.18	34	38.42	37 48
11.91	53	98.14	35 07	15.43	26	6.39	37 27	13.25	13	18.36	32 58	15.43	57	29.17	31 28	16.02	34	38.48	35 46
15.64	54	98.43	30 28	14.36	26	6.50	39 32	15.05	13	18.36	39 27	15.21	59	29.80	33 34				
15.21	54	98.46	35 08	15.00	28	7.03	38 55	15.43	14	18.45	33 10	15.34	36 3	30.79	38 49				
13.37	54	98.55	35 16	15.77	29	7.27	30 39	14.70	16	19.05	32 58	14.70	6	31.48	36 39				
15.55	54	98.60	39 27	16.02	32	7.89	36 29	14.92	20	20.10	30 23	15.93	10	32.53	30 43				
15.93	55	98.75	39 25	14.83	36	9.06	34 01	15.00	22	20.43	38 42	13.54	13	33.17	32 45				
11.89	58	99.39	34 37	14.83	36	9.11	35 04	15.26	22	20.51	31 02	15.47	13	33.22	39 32				

25 prec. + 76 sec. — 4′ 56″.

16^h Area 108. Centre for 1900: 16^h 32^m — 0° 10′. — 0°

1—20				21—40				41—60				61—80				81—100			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.91	30 12	73.01	33 20	14.93	30 23	75.86	32 29	15.45	30 40	79.94	37 52	15.93	30 55	83.70	37 16	15.27	31 13	88.13	33 22
15.80	14	73.40	35 37	16.11	24	76.12	31 04	15.49	41	80.23	36 15	15.95	57	84.24	38 24	11.10	13	88.13	31 04
15.89	15	73.69	37 36	16.20	25	76.22	34 26	16.20	41	80.23	32 15	15.58	58	84.44	30 11	16.20	15	88.69	36 38
16.20	15	73.75	35 11	16.20	25	76.25	34 08	15.45	41	80.32	36 59	15.72	31 0	84.88	35 38	15.95	16	89.00	33 32
15.83	15	73.79	38 34	16.11	26	76.61	35 26	12.84	41	80.34	32 42	16.20	0	85.08	37 33	15.80	16	89.12	38 11
15.23	15	73.79	33 50	15.83	27	76.65	35 01	16.20	44	80.93	32 12	14.73	1	85.16	32 33	16.20	17	89.16	30 01
15.23	15	73.84	33 46	16.20?	27	76.75	35 55	15.49	44	81.12	35 12	15.91	2	85.57	33 53	16.11	17	89.28	32 31
15.37	15	73.86	34 12	15.33	27	76.83	30 43	16.20?	45	81.14	36 07	16.20	3	85.64	39 09	14.13	17	89.29	34 09
14.93	16	74.02	35 57	15.63	28	76.99	30 25	16.20	46	81.43	38 09	15.57	3	85.80	36 18	16.20	18	89.58	35 57
15.80	16	74.07	36 40	15.89	28	77.05	35 53	16.20	47	81.64	33 49	13.13	3	85.81	32 48	14.65	18	89.59	32 17
15.63	16	74.10	30 00	16.11	29	77.29	39 55	15.83	47	81.74	35 20	16.20	4	86.01	37 13	15.66	19	89.69	35 23
16.20	17	74.13	32 21	15.33	30	77.53	33 13	12.16	47	81.80	32 36	14.87	6	86.40	30 22	15.83	19	89.79	33 24
15.69	17	74.22	34 34	15.89	30	77.59	34 11	15.95	48	81.93	33 17	16.20	6	86.41	34 06	16.20	19	89.81	38 57
14.48	17	74.36	31 07	15.40	30	77.62	38 26	14.10	49	82.28	39 44	15.87	7	86.67	39 51	15.89	20	90.00	39 50
15.93	18	74.46	31 24	15.87	31	77.75	38 29	16.20	50	82.41	34 11	14.48	8	87.09	39 19	16.20	20	90.00	32 49
15.73	19	74.66	38 58	15.87	32	77.94	35 00	16.20	50	82.60	34 50	15.57	9	87.21	35 21	16.11	20	90.04	34 21
15.27	21	75.16	38 55	15.87	33	78.15	31 49	15.76	52	83.01	38 41	16.20	10	87.61	30 09	14.10	21	90.36	35 45
16.20	21	75.32	35 46	11.62	38	79.56	35 34	15.91	53	83.14	30 46	15.93	12	87.99	38 02	15.95	22	90.41	39 48
16.20?	22	75.61	36 46	15.73	39	79.63	32 02	15.79	55	83.63	38 07	16.20	12	88.01	35 40	16.11	22	90.47	37 42
16.20	23	75.64	36 26	16.20	39	79.71	34 08	15.85	55	83.65	38 39	16.20	12	88.10	35 04	15.85	24	90.89	33 36

25 prec. + 77 sec. — 3′ 10″.

Area 108.

101—150				151—200				201—250				251—300				301—350			
Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.10	31 24	91.09	32 58	14.10	31 55	98.65	34 26	16.20	32 42	10.55	34 31	14.10	33 24	21.07	31 07	15.89	34 1	30.20	37 44
15.83	25	91.31	31 56	15.91	57	99.36	35 25	15.87	44	11.05	37 38	15.12	27	21.72	30 03	15.83	1	30.22	38 46
15.80	26	91.50	39 41	15.83	58	99.44	34 31	16.20	44	11.09	34 36	16.20	27	21.75	36 38	15.95	1	30.22	33 23
15.87	26	91.59	39 57	16.20	59	99.75	33 57	15.85	45	11.13	30 35	15.85	28	21.90	31 33	15.21	1	30.25	34 32
15.93	26	91.59	39 25	15.85	32 0	99.94	36 48	16.20	46	11.39	39 03	16.20	29	22.37	36 31	13.44	2	30.38	39 58
15.64	26	91.59	31 31	13.98	0	99.95	30 03	15.51	47	11.78	37 08	15.45	30	22.62	30 33	15.73	2	30.46	38 42
16.20	27	91.71	35 35	16.20	5	1.17	31 56	16.20	48	11.89	31 03	13.77	31	22.63	37 20	16.20	7	31.63	35 53
16.20	27	91.75	32 59	14.48	7	1.65	34 26	15.83	48	12.03	33 35	15.72	32	22.90	31 13	16.20	7	31.67	35 08
15.93	28	92.08	34 28	16.20	7	1.85	32 02	15.85	52	13.10	34 30	15.76	33	23.23	39 48	16.20	7	31.69	34 49
15.95	29	92.18	31 26	15.54	9	2.23	33 46	15.66	53	13.18	32 24	16.20	34	23.43	32 31	15.58	8	31.99	36 07
16.20	29	92.33	32 42	15.05	11	2.64	34 58	15.45	54	13.42	32 29	15.89	34	23.56	38 22	14.02	8	32.10	34 03
15.91	30	92.58	35 12	13.63	12	3.08	34 38	16.20	56	13.95	32 18	16.20	35	23.83	34 36	15.54	9	32.18	33 45
15.57	32	92.88	38 42	16.20	13	3.13	32 53	14.10	56	14.12	35 14	14.31	36	23.98	38 16	15.17	11	32.68	36 28
15.72	32	92.89	34 00	15.37	13	3.23	39 08	15.79	57	14.28	34 59	15.58	37	24.28	31 34	16.11	30 12	73.01	24 11
16.11	32	92.97	32 09	16.20	13	3.27	35 37	15.54	57	14.30	32 27	15.80	37	24.36	33 22	15.91	12	73.09	24 46
15.85	32	93.01	31 55	15.85	13	3.33	34 57	14.79	57	14.35	35 43	15.23	38	24.41	31 39	15.58	13	73.31	22 50
16.20	32	93.08	39 00	15.89	15	3.76	32 16	16.11	59	14.63	32 26	15.89	38	24.60	33 56	15.79	13	73.35	26 56
13.63	32	93.10	35 41	15.54	15	3.82	35 23	15.93	59	14.68	34 33	16.20	40	24.91	33 02	15.69	14	73.43	29 15
16.20	33	93.26	34 24	15.58	16	3.94	37 29	15.42	59	14.80	31 10	15.83	40	25.10	33 10	16.20	14	73.50	29 40
15.91	35	93.64	36 27	10.22	19	4.64	33 48	15.79	33 0	14.88	37 00	16.20	41	25.16	35 47	15.72	15	73.80	25 32
15.87	35	93.77	37 11	15.73	20	4.90	33 10	15.79	0	14.96	39 29	15.89	42	25.41	34 35	15.66	16	73.91	23 26
15.54	38	94.55	35 52	15.66	21	5.30	33 17	15.45	0	14.98	35 18	16.20	42	25.50	31 20	16.20	16	74.04	25 15
15.72	39	94.65	31 30	15.33	23	5.78	38 43	16.20	0	15.05	38 34	15.83	42	25.61	35 43	16.20	16	74.05	20 55
16.20	39	94.72	30 40	16.11	23	5.85	34 14	15.72	1	15.27	36 54	15.51	42	25.62	34 30	15.58	17	74.23	25 45
15.89	39	94.87	34 50	15.95	24	6.11	39 50	15.69	1	15.29	33 50	9.06*	43	25.63	38 10	13.32	19	74.69	25 40
15.87	39	94.87	39 25	16.20	25	6.25	38 37	15.79	1	15.34	31 16	16.20	43	25.64	33 46	13.32	19	74.71	27 00
15.87	40	95.09	38 37	15.23	26	6.47	37 59	15.49	3	15.69	31 56	15.45	44	26.03	33 24	15.93	20	74.88	23 30
15.83	42	95.54	37 47	15.83	27	6.82	35 12	15.33	3	15.77	38 53	15.80	45	26.33	30 39	15.67	20	74.93	29 28
16.20	43	95.66	30 56	16.20	27	6.85	38 48	15.88	4	15.98	30 20	14.31	47	26.78	32 37	16.20	21	75.21	27 26
16.20	43	95.80	39 50	15.61	29	7.17	30 52	15.85	4	16.09	35 55	16.20	48	26.93	35 35	16.20	22	75.58	28 10
15.85	43	95.86	33 32	16.20	29	7.30	35 25	15.83	7	16.77	35 00	15.69	48	27.02	35 49	16.20	24	75.95	28 44
15.58	44	96.04	32 42	16.20	30	7.39	36 21	15.94	7	16.77	30 03	14.93 :	48	27.02	35 14	15.87	24	75.99	29 11
13.05	45	96.22	33 45	16.20	30	7.61	34 39	15.83	8	16.90	31 02	15.95	51	27.82	30 12	10.71	25	76.20	25 33
15.66	45	96.24	32 16	15.87	31	7.76	34 57	15.17	8	17.10	33 14	15.45	53	28.30	39 52	16.20	27	76.71	27 06
16.20	47	96.76	33 34	15.61	31	7.81	33 06	15.91	9	17.16	32 37	16.20	53	28.31	36 22	15.93	28	76.88	20 00
15.37	48	96.89	30 41	15.85	32	7.88	31 56	15.80	10	17.39	35 36	15.79	55	28.82	37 12	15.87	28	77.07	20 55
16.20	48	97.12	32 15	14.48	32	7.91	32 55	15.54	11	17.69	37 42	12.34	56	29.01	33 36	13.49	30	77.43	25 17
16.20	49	97.33	33 10	15.00	32	8.05	31 18	16.20	11	17.71	30 20	15.44	57	29.21	30 18	16.20	30	77.59	28 35
15.79	49	97.33	31 27	16.11	33	8.14	36 17	15.85	12	18.05	30 12	15.87	57	29.23	34 39	15.61	31	77.68	21 08
15.45	50	97.47	39 41	15.91	33	8.25	33 12	15.95	12	18.06	35 26	16.20	57	29.30	37 25	16.20	31	77.76	26 35
16.11	50	97.50	33 03	15.49	35	8.68	34 39	16.20	13	18.18	38 37	16.20	57	29.31	39 15	15.95	32	77.98	20 00
15.85	51	97.73	34 26	13.08	35	8.69	32 01	15.83	15	18.77	36 09	15.66	58	29.47	34 54	15.69	32	78.04	28 05
15.79	51	97.83	35 28	15.49	35	8.80	39 47	15.05	16	18.94	31 12	14.93	59	29.80	31 33	15.61	33	78.16	24 48
16.20	51	97.84	33 38	16.20	36	8.91	34 16	16.20	16	19.03	38 04	15.80	59	29.86	33 50	15.51	33	78.17	23 05
15.66	51	97.85	38 47	15.79	36	8.98	37 46	16.20	17	19.14	39 45	15.45	34 0	29.98	36 20	16.20	33	78.20	27 37
15.91	52	98.05	37 41	15.91	36	9.09	33 55	16.20	17	19.15	38 57	15.37 :	0	29.98	39 41	15.93	35	78.68	26 01
15.58	52	98.07	35 51	15.91	37	9.16	36 28	15.66	18	19.55	35 36	15.79	0	30.00	37 03	16.20	36	78.98	20 10
14.79	53	98.15	31 55	15.79	39	9.80	35 04	15.05	19	19.85	38 47	15.87	0	30.01	36 08	15.95	37	79.37	29 22
15.72	53	98.28	38 55	15.91	40	9.99	39 15	14.93	20	19.94	39 11	15.80	0	30.07	35 25	15.57	38	79.43	24 15
16.20	54	98.61	39 19	16.20	42	10.44	33 04	11.42	21	20.35	38 47	15.57	0	30.08	33 35	15.87	38	79.59	28 35

25 prec. + 77 sec. — 3′ 7″.

351—400				401—450				451—500				501—550				551—600			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.87	30 40	79.97	27 01	16.20	31 6	86.52	25 16	15.66	31 36	93.99	28 38	16.20	32 7	1.76	25 14	10.52	32 39	9.83	21 01
15.67	40	80.07	20 11	15.95	6	86.54	29 00	15.76	36	94.07	21 33	12.74	7	1.85	26 17	15.61	39	9.84	22 02
15.49	40	80.10	24 18	16.20	7	86.69	22 01	16.11	37	94.19	27 15	15.54	8	1.92	25 19	15.45	41	10.21	28 18
14.93	41	80.21	22 43	11.75	8	87.04	26 50	15.95	41	95.17	24 51	15.40	9	2.26	27 53	15.85	43	10.65	23 37
16.20	42	80.45	23 44	15.85	8	87.04	25 31	15.37	41	95.18	21 04	15.87	9	2.35	20 44	16.11	43	10.73	28 04
16.11	43	80.65	28 17	14.31	8	87.10	21 15	15.51	42	95.38	28 21	16.20	10	2.47	23 38	16.20	44	11.03	29 17
15.93	43	80.67	24 50	15.73	9	87.20	21 29	16.20	42	95.59	24 32	16.20	10	2.57	22 27	14.48	45	11.13	28 23
12.27	43	80.70	28 47	15.80	9	87.28	23 21	15.93	43	95.83	24 53	15.79	11	2.75	25 17	16.20	45	11.18	29 15
15.58	43	80.77	23 44	16.20	9	87.33	26 00	15.21	44	95.99	23 41	13.33	11	2.76	21 41	15.95	47	11.73	24 12
15.89	43	80.86	22 34	15.91	9	87.33	27 08	16.20	44	96.00	29 06	15.54	11	2.77	27 03	16.20	48	12.00	25 03
16.20	44	80.91	26 00	15.64	11	87.75	24 06	14.65	44	96.08	22 11	16.20	12	3.08	24 01	15.27	49	12.17	23 11
15.51	44	80.98	22 27	16.20	11	87.83	26 24	15.87	45	96.27	24 53	11.18	13	3.16	27 32	14.10	49	12.25	22 58
15.40	44	81.01	20 35	16.11	13	88.19	28 11	16.20	45	96.29	28 09	15.85	14	3.54	25 15	13.63	49	12.31	21 36
15.45	45	81.17	23 18	16.20	13	88.33	26 33	15.61	45	96.30	25 25	16.20	15	3.63	25 59	15.57	49	12.31	24 36
15.40	45	81.26	27 36	15.58	14	88.42	22 20	14.73	45	96.32	25 03	15.72	15	3.66	22 14	15.58	50	12.40	22 38
16.20	45	81.34	24 53	15.49	14	88.54	28 54	16.20	46	96.39	22 31	16.20	15	3.74	21 19	15.57	51	12.67	25 44
15.95	46	81.46	24 32	15.95	16	88.92	23 55	15.66	46	96.49	24 35	15.95	15	3.76	28 25	15.33	54	13.41	29 15
15.80	46	81.46	26 39	16.20	16	88.94	25 12	11.82	46	96.50	20 18	15.87	15	3.82	26 56	15.85	54	13.43	23 07
15.95	47	81.67	29 13	15.72	16	89.12	24 27	16.20	48	97.08	28 28	16.11	18	4.45	25 30	14.31	54	13.50	22 21
16.20	47	81.75	23 18	15.95	17	89.21	26 42	16.20	50	97.48	26 51	15.89	19	4.63	25 40	12.17	56	14.10	23 03
15.83	48	82.12	24 55	15.33	17	89.23	27 08	15.42	51	97.73	23 20	15.80	19	4.69	28 56	16.20	57	14.17	25 42
16.20	49	82.15	29 16	15.91	17	89.29	29 40	16.20	51	97.80	22 45	15.40	19	4.75	24 55	15.12	57	14.20	23 25
16.11	49	82.36	23 54	16.20	18	89.40	20 55	15.95	52	97.99	22 53	15.79	19	4.77	21 47	15.76	58	14.56	21 43
15.73	49	82.36	28 46	16.20	18	89.42	22 56	15.76	52	97.99	20 13	15.12	21	5.15	24 14	15.89	59	14.81	28 54
15.33	51	82.63	27 37	16.20	18	89.43	24 15	11.92	52	98.05	22 29	15.87	21	5.37	23 32	15.87	59	14.87	24 53
15.42	51	82.66	25 03	16.20	19	89.63	22 14	15.91	53	98.28	26 11	14.65	22	5.39	28 14	16.11	33 2	15.38	21 32
15.83	51	82.67	24 53	15.45	19	89.70	29 32	15.61	53	98.29	28 25	15.80	22	5.45	26 53	14.85	3	15.71	25 04
15.72	51	82.83	21 17	15.69	20	89.93	23 20	15.73	54	98.47	22 58	15.69	23	5.84	20 50	15.69	4	15.95	27 10
15.83	52	82.96	29 04	15.80	20	90.12	22 03	16.20	54	98.50	25 53	16.20	24	6.07	28 27	15.93	4	15.97	28 21
16.20	52	83.02	26 27	15.80	21	90.20	24 35	15.85	54	98.53	26 39	15.95	25	6.13	21 31	15.12	4	15.97	26 55
15.57	54	83.45	22 54	16.20	21	90.29	24 25	15.80	55	98.69	20 51	16.20	25	6.15	28 10	16.11	6	16.39	26 31
16.20	54	83.48	25 50	15.93	21	90.31	20 23	16.20	56	98.89	25 45	15.72	27	6.64	20 22	15.89?	6	16.53	28 51
15.21	54	83.55	25 23	15.87	22	90.42	20 14	15.51	56	99.11	27 01	16.20	28	6.94	27 20	15.66	7	16.75	29 35
15.31	56	83.97	27 47	15.17	22	90.62	29 05	16.20	57	99.18	22 52	16.20	29	7.15	27 38	15.42	8	16.93	22 27
15.80	57	84.17	25 43	15.21	23	90.72	27 13	15.45	57	99.28	28 01	15.85	30	7.51	27 46	15.69	12	17.88	22 27
15.83	57	84.24	28 25	14.48	25	91.32	28 47	15.60	59	99.65	29 52	15.80	30	7.59	27 07	15.12	12	17.90	27 38
16.11	58	84.57	25 47	15.64	26	91.38	28 29	15.66	59	99.68	27 23	16.20	31	7.71	29 55	15.66	12	18.04	27 44
14.93	31 0	84.94	22 59	15.93	26	91.61	26 26	16.20	59	99.74	21 33	16.11	31	7.72	26 37	15.85	14	18.57	25 33
16.20	2	85.53	23 26	15.42	29	92.21	20 35	16.20	32 0	99.90	29 25	14.02	32	7.96	22 38	15.87	15	18.87	24 09
15.17	2	85.54	25 00	15.94	29	92.24	29 25	16.20	0	0.03	20 39	15.10	33	8.23	27 20	15.54	18	19.46	20 53
15.95	2	85.58	27 06	15.85	29	92.26	21 25	16.20	2	0.48	21 35	15.89	34	8.42	26 29	15.73	19	19.63	21 30
16.20	3	85.63	21 30	15.57	30	92.60	29 18	14.93	4	0.89	25 37	14.65	34	8.54	26 36	15.89	21	20.14	26 09
15.79	3	85.82	23 45	16.20	31	92.72	23 22	15.54	5	1.16	24 17	16.20	34	8.55	28 42	14.79	21	20.17	26 36
16.20	4	85.94	28 13	14.48	31	92.82	27 09	16.20	5	1.17	28 21	16.20	35	8.67	23 08	15.57	22	20.35	29 16
16.20	4	85.94	25 09	16.20	32	93.02	29 07	15.83	5	1.17	22 47	15.83	35	8.78	29 05	16.11	22	20.58	25 49
15.91	4	85.94	28 33	15.85	33	93.31	21 43	14.48	5	1.25	29 07	15.89	37	9.13	22 12	16.20	23	20.67	20 07
16.20	4	86.11	21 01	16.11	34	93.44	27 46	16.20	6	1.47	26 55	16.20	37	9.31	20 43	14.31	23	20.87	28 49
16.20	5	86.20	23 11	16.20	35	93.80	23 49	15.91	6	1.49	24 20	15.89	37	9.35	22 01	15.52	24	20.93	29 36
15.72	5	86.28	27 29	15.72	35	93.81	20 29	16.20	7	1.66	24 33	15.93	38	9.54	28 02	15.76	25	21.36	28 46
16.20	5	86.35	20 45	15.87	35	93.85	24 51	16.20	7	1.73	20 34	15.61	39	9.76	22 55	16.20	26	21.49	23 15

25 prec. + 77 sec. — 3′ 8″.

601—650				651—700				701—750				751—800				801—850			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.89	33 27	21.67	27 30	15.73	34 3	30.82	27 58	15.93	30 48	82.07	17 15	15.66	31 25	91.21	13 07	15.89	31 57	99.24	10 17
16.20	27	21.77	22 01	15.89	4	30.90	26 00	8.40*	50	82.41	12 26	15.85	26	91.43	18 45	15.95	58	99.47	11 39
16.20	27	21.78	26 29	15.90	4	30.91	29 50	16.20	50	82.56	10 30	15.66	27	91.74	14 21	16.20	59	99.70	15 26
15.27	28	21.90	26 48	14.65	4	31.11	23 50	15.85	51	82.65	14 39	14.31	27	91.87	15 03	16.20	59	99.78	18 01
15.95	28	22.03	29 18	16.20	5	31.33	23 42	15.89	51	82.75	13 51	15.51	29	92.20	12 09	15.95	32 0	99.89	11 05
15.87	29	22.26	29 06	15.64	5	31.33	24 20	15.93	52	83.06	14 38	16.20	31	92.81	14 39	11.49	0	99.99	16 23
15.89	29	22.27	20 42	11.84	5	31.34	23 02	16.20	54	83.44	14 56	16.20	32	92.94	19 10	15.89	1	0.15	17 24
16.20	29	22.34	21 35	15.95	6	31.58	22 41	15.76	54	83.47	17 33	16.20	33	93.32	14 06	15.87	2	0.40	12 41
13.63	30	22.46	27 29	15.54	8	31.89	20 38	16.11	55	83.78	11 59	15.95	33	93.34	14 10	16.11?	2	0.49	16 47
16.20	30	22.58	22 16	15.83	8	31.91	29 41	16.20	55	83.87	17 23	15.93	35	93.71	15 09	15.83	2	0.54	18 39
15.00	30	22.62	25 35	15.83	8	32.02	25 41	13.77	58	84.61	16 55	15.91	36	93.99	14 53	15.87	3	0.79	19 44
15.57	31	22.66	21 38	15.95	8	32.04	29 46	15.89	59	84.77	15 14	16.20	37	94.26	15 27	15.45	4	0.88	13 10
16.11	32	22.96	21 58	15.87	9	32.22	24 25	14.93	59	84.77	13 47	15.79	38	94.41	11 50	16.20	4	1.10	10 14
15.69	33	23.16	29 02	14.36	10	32.43	26 08	16.20	31 0	85.00	11 09	15.91	38	94.57	10 34	16.03	4	1.12	10 02
15.51	33	23.32	22 48	16.20	11	32.72	26 37	15.85	1	85.22	18 50	15.76	40	95.12	12 09	15.87	5	1.32	11 40
15.58	33	23.36	20 45	15.87	30 12	73.06	14 44	15.49	1	85.29	15 31	15.17	41	95.32	17 49	16.20	6	1.54	11 43
15.42	34	23.46	23 25	15.66	13	73.32	12 14	16.11	1	85.35	12 40	15.69	41	95.33	11 39	16.20	6	1.55	16 16
15.69	36	23.96	20 12	15.05	14	73.38	12 21	15.93	2	85.42	15 02	15.83	42	95.44	13 30	16.11	6	1.57	15 57
14.31	36	23.98	28 16	15.72	16	74.02	11 57	13.22	3	85.76	13 14	16.11	42	95.52	18 38	15.33	7	1.63	10 44
15.87	36	24.00	24 57	16.20	18	74.51	15 32	16.20	3	85.77	19 44	15.95	44	96.02	18 34	16.20	7	1.74	16 49
15.85	36	24.08	23 36	15.73	18	74.53	14 40	16.11	3	85.87	13 33	14.13	45	96.29	16 22	16.20	7	1.81	10 08
15.33	37	24.25	25 19	15.58	18	74.55	18 38	15.85	4	86.06	12 46	14.82	46	96.38	19 35	15.95	9	2.18	19 25
15.33	39	24.85	20 44	16.20	19	74.84	10 19	16.11	5	86.15	12 42	16.20	47	96.63	11 21	16.20	10	2.54	13 30
16.20	40	24.90	29 37	15.87	20	74.96	12 26	14.65	6	86.46	11 15	16.20	47	96.66	10 41	16.11	11	2.84	11 05
15.27	40	25.00	25 05	15.87	20	74.96	14 27	15.91	6	86.47	12 38	15.91	47	96.69	19 30	15.75	12	3.07	18 08
16.11	41	25.35	28 19	15.80	20	75.01	15 49	15.25	6	86.55	10 00	15.85	47	96.71	15 07	15.73	13	3.14	15 29
16.20	44	25.93	20 33	13.32	21	75.17	15 32	13.22	6	86.62	13 16	14.65	47	96.71	14 57	9.07*	14	3.38	12 33
13.22	44	26.06	25 40	15.58	25	76.22	11 26	14.98	7	86.79	13 23	16.20	47	96.83	14 32	16.20	14	3.39	13 52
15.87	45	26.34	26 43	16.20	26	76.60	10 55	16.11	8	86.95	12 11	15.79	48	96.92	13 02	16.20	14	3.48	14 05
15.33	46	26.45	22 35	15.45	30	77.44	17 23	16.20	9	87.17	12 39	16.20	48	97.10	12 37	15.83	15	3.77	17 48
14.48	46	26.57	26 43	15.79	32	77.89	11 26	16.20	11	87.71	19 26	15.54	49	97.23	17 04	16.11	15	3.87	17 14
15.42	47	26.64	24 10	14.31	33	78.26	11 04	15.64	11	87.84	19 01	16.11	49	97.29	13 01	15.40	17	4.28	18 28
16.11?	47	26.74	27 34	15.95	35	78.67	13 13	15.95	12	87.95	15 30	16.20	50	97.57	18 56	15.58	19	4.75	18 00
15.66	47	26.79	23 48	15.91	37	79.29	18 23	13.13	12	88.02	14 04	13.44	50	97.57	12 34	15.76	19	4.75	14 52
15.72	48	26.94	25 27	15.57	38	79.45	10 11	15.45	13	88.35	14 11	16.20	50	97.59	19 26	16.20	19	4.77	17 52
15.51	48	26.94	26 29	15.87	39	79.69	13 09	15.95	14	88.40	19 23	15.89	52	97.90	17 08	15.72	20	4.93	14 43
15.40	48	27.04	29 07	15.85	39	79.84	18 58	15.79	14	88.45	14 45	16.20	52	97.97	15 00	16.20	20	4.95	11 44
16.11	50	27.58	26 06	16.20	39	79.85	18 29	16.20	15	88.63	19 43	16.20	52	98.08	15 27	16.20	21	5.20	13 46
15.10	51	27.67	20 59	15.87	39	79.86	18 14	15.93	16	88.88	14 16	15.95	53	98.30	14 07	15.93	21	5.31	19 48
15.61	52	27.96	26 22	15.72	40	80.06	14 20	14.65	16	88.93	11 33	16.20	54	98.40	13 12	16.20	22	5.46	14 47
15.61	52	28.08	29 27	15.37	41	80.18	11 29	16.20	18	89.53	19 06	16.11	54	98.58	19 49	16.20	22	5.58	14 27
15.93?	53	28.26	27 42	15.51	42	80.48	18 12	16.20	18	89.53	10 39	16.20	54	98.58	13 44	15.51	23	5.68	15 16
15.73	53	28.36	20 42	16.20	42	80.57	15 02	14.58	18	89.55	11 43	15.87	55	98.73	17 56	15.93	23	5.86	17 00
16.20	55	28.84	26 06	15.10	43	80.72	12 07	13.22	18	89.62	14 33	15.87	55	98.80	14 55	16.20	24	6.07	14 46
15.85	56	28.92	24 18	15.83	45	81.37	15 12	16.20	20	90.11	12 01	13.76	56	98.89	14 44	15.73	25	6.17	14 52
11.03	57	29.24	23 50	15.80	45	81.37	12 23	14.87	21	90.28	19 35	15.87	56	98.96	15 22	15.76	25	6.25	11 40
15.54	57	29.25	24 38	16.20	47	81.77	12 08	15.89	22	90.41	12 59	15.91	56	99.11	15 57	15.85	25	6.33	19 20
16.20	57	29.29	25 57	15.42	47	81.83	11 50	15.89	22	90.52	13 45	15.40	57	99.16	10 39	15.95	25	6.34	17 46
15.27	34 2	30.53	25 17	16.20	47	81.86	10 04	15.95	23	90.74	10 17	16.20	57	99.19	13 11	16.20	26	6.55	10 31
16.20	2	30.61	27 39	14.93	48	81.99	11 12	15.89	24	90.94	19 28	15.93	57	99.19	15 14	15.85	27	6.65	17 30

25 prec. + 77 sec. — 3′ 8″.

851—900				901—950				951—1000				1001—1050				1051—1100			
Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.79	32 27	6.85	17 28	15.93	33 6	16.51	14 27	15.83	33 51	27.65	19 08	15.27	30 25	76.32	5 52	15.69	30 58	84.41	7 02
15.85	28	7.01	16 36	15.85	7	16.78	16 43	15.54	51	27.66	13 23	15.45	26	76.46	1 47	16.20	58	84.48	4 56
15.85	28	7.03	14 33	15.79	8	16.91	13 34	14.79	51	27.80	19 04	16.20	26	76.61	7 38	16.11	59	84.77	9 13
15.61	29	7.17	11 13	16.20	9	17.19	10 12	16.20	52	27.88	10 51	16.20	27	76.63	5 06	15.95	59	84.79	2 13
15.85	29	7.25	17 48	12.97	9	17.20	10 52	16.20	52	27.96	16 10	15.93	27	76.69	0 41	15.54	31 0	84.96	3 17
15.23	29	7.35	14 03	15.23	11	17.69	16 02	15.73	53	28.16	12 51	13.33	28	77.03	1 38	15.64	1	85.16	2 43
16.20	31	7.73	11 23	15.72	13	18.29	16 00	15.79	53	28.18	12 34	15.85	29	77.25	0 35	15.89	2	85.47	3 36
16.20	31	7.85	11 29	15.87	14	18.40	15 19	15.72	53	28.34	13 05	14.31	30	77.59	6 41	15.64	2	85.56	2 35
16.20	32	7.91	15 00	16.11	16	19.10	16 25	16.20	54	28.44	15 47	15.91	31	77.71	1 33	14.79	4	85.98	0 40
15.45	33	8.13	19 21	16.20	19	19.79	11 21	16.20	56	28.88	14 55	15.85	31	77.86	9 03	15.80	5	86.16	8 06
16.20	33	8.13	11 15	16.20	20	19.88	14 03	15.77	56	28.94	10 30	16.20	32	78.11	4 33	11.96	5	86.16	7 49
15.33	33	8.23	17 50	16.11	20	19.89	16 56	15.95	57	29.18	11 21	15.87	33	78.25	1 32	14.48	5	86.21	1 39
15.58	33	8.29	15 22	15.93	20	19.99	17 30	15.58	58	29.45	14 10	15.66	34	78.45	3 34	16.20	5	86.27	0 46
15.95	33	8.31	18 45	15.73	20	19.99	12 12	16.20	59	29.71	10 12	15.95	35	78.79	9 43	16.20	6	86.45	4 52
15.80	33	8.34	13 51	16.20	21	20.35	12 30	15.23	34 1	30.20	12 02	16.20	37	79.17	5 07	15.89	7	86.63	1 02
15.31	33	8.34	15 51	15.79	22	20.45	16 26	13.98	1	30.34	10 02	16.20	38	79.42	1 12	16.20	8	87.06	5 57
16.20	35	8.77	17 50	16.20	22	20.57	16 12	15.73	2	30.43	14 42	15.61	39	79.65	5 06	14.87	9	87.14	7 21
16.20	37	9.34	14 11	13.44	22	20.58	11 46	16.20	2	30.45	10 15	15.64	39	79.68	8 03	15.95	9	87.15	1 31
15.83	38	9.40	13 52	16.20	22	20.59	11 20	15.40	2	30.59	13 23	15.79	39	79.79	1 54	15.57	9	87.25	1 15
12.38	38	9.44	16 19	15.61	23	20.68	17 00	15.45	4	30.95	15 30	16.20	39	79.84	5 14	16.20	10	87.60	8 41
16.20	40	9.92	10 49	15.83	25	21.37	18 52	12.60	4	31.04	10 33	16.20	39	79.86	1 01	15.83	11	87.67	2 52
12.07	42	10.46	10 16	16.20	27	21.87	12 00	16.20	4	31.07	16 39	16.20	40	79.98	0 40	15.93	12	87.95	8 09
15.89	43	10.76	14 07	15.93	28	21.95	12 32	15.95	5	31.16	14 55	15.95	41	80.20	8 17	16.20	12	87.95	4 37
16.20	44	10.93	19 00	15.91	29	22.31	12 06	16.20	5	31.26	18 15	16.20	42	80.38	8 13	15.45	13	88.15	6 35
16.20	44	11.05	13 38	15.93	30	22.38	17 15	15.87	5	31.33	13 50	15.91	44	81.09	1 19	15.49	13	88.25	5 31
15.95	46	11.48	18 38	15.83	30	22.40	12 40	15.91	5	31.36	18 39	16.20	45	81.17	7 16	16.11	13	88.29	1 33
16.11	49	12.32	11 50	13.56	30	22.61	19 38	15.40	6	31.40	12 02	15.69	46	81.57	3 52	15.91	13	88.29	2 02
15.85	51	12.84	12 08	15.85	31	22.77	12 40	15.21	6	31.55	12 00	15.80	47	81.68	1 44	15.93	15	88.64	9 32
15.69	52	13.04	15 39	15.64	32	22.95	13 28	15.95	6	31.58	17 18	15.93	47	81.69	4 21	15.95	15	88.74	2 48
16.20	53	13.24	13 41	16.20	33	23.36	17 23	16.20	7	31.64	13 30	15.64	47	81.70	6 24	15.69	16	88.88	6 18
15.79	53	13.30	14 01	15.63	34	23.47	19 56	12.16	9	32.13	13 15	16.20	47	81.80	9 39	15.31	16	88.91	7 56
15.61	54	13.41	19 06	15.87	35	23.64	12 29	15.93	9	32.36	11 58	16.11	48	82.11	6 29	15.58	16	89.04	4 10
16.20	54	13.60	19 32	15.87	36	23.88	10 52	15.95	10	32.40	18 41	15.85	49	82.22	6 23	15.85	17	89.22	5 26
15.54	55	13.69	10 40	15.91	37	24.27	11 49	10.45	10	32.46	14 48	14.82	49	82.28	0 17	13.76	17	89.28	4 28
15.83	55	13.72	16 57	16.20	38	24.47	18 09	13.63	10	32.50	15 34	16.20	50	82.40	3 58	15.73	18	89.40	6 34
15.47	55	13.77	19 45	16.20	38	24.48	18 48	16.20	30 12	73.05	9 22	15.95	50	82.44	9 55	12.67	19	89.69	0 22
16.20	56	13.88	14 48	16.20	39	24.76	13 03	16.20	13	73.32	1 00	13.63	51	82.75	4 24	15.84	19	89.76	0 13
15.87	56	13.91	11 14	16.20	40	24.92	12 57	15.42	14	73.51	9 11	15.64	51	82.78	4 09	15.57	20	89.88	1 19
16.20	56	14.11	14 29	15.80	40	24.93	12 12	15.95	16	73.88	2 06	15.66	51	82.79	8 53	16.20	20	89.96	4 05
15.80	58	14.48	13 53	16.20	40	25.10	12 18	15.58	16	73.89	5 30	15.54	52	82.96	1 15	16.11	21	90.23	0 25
14.98	33 1	15.14	14 52	11.97	41	25.34	13 15	16.20	18	74.45	8 04	13.13	53	83.36	9 23	15.33	22	90.54	6 15
16.20	1	15.14	14 58	16.20	42	25.49	14 15	16.20	18	74.58	0 00	15.95	54	83.43	1 34	15.85	25	91.29	7 00
15.63	2	15.51	19 28	15.80	43	25.67	11 00	16.20	18	74.61	1 37	16.20	54	83.57	5 04	15.83	26	91.62	2 47
15.89	2	15.61	17 21	14.98	43	25.86	10 27	16.20	22	75.51	0 37	16.20	55	83.69	9 08	15.93	27	91.68	9 25
15.49	3	15.82	16 03	16.20	46	26.54	11 13	15.83	22	75.52	0 52	13.13	56	83.99	3 48	15.57	27	91.87	5 31
15.80	4	15.91	18 40	16.20	47	26.66	18 19	15.87	22	75.54	1 23	15.93	56	84.05	1 53	15.76	28	92.06	3 37
15.95	4	16.04	11 01	15.17	47	26.76	19 38	15.72	22	75.56	8 58	15.64	57	84.16	6 24	15.58	28	92.06	7 53
15.89	6	16.40	12 50	16.11	48	27.04	19 46	15.31	22	75.59	9 25	16.20	57	84.18	3 10	16.11	29	92.14	6 04
16.11	6	16.49	13 41	15.93	48	27.08	12 12	16.20	23	75.68	5 29	16.20	57	84.31	4 46	15.89	29	92.22	8 37
16.20	6	16.51	14 48	15.57	49	27.16	10 51	14.79	24	75.93	1 46	15.91	58	84.38	8 45	16.11	31	92.84	1 08

25 prec. + 77 sec. — 3′ 7″.

1101—1150				1151—1200				1201—1250				1251—1300				1301—1350			
Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.20	31 31	92.87	6 14	16.20	32 12	3.12	1 00	15.85	32 47	11.67	4 08	15.66	33 18	19.62	3 45	16.20	33 51	27.66	−7 33
16.20	33	93.17	2 56	15.89	13	3.15	0 09	15.75	47	11.73	0 22	15.83	19	19.71	7 41	16.20	51	27.83	9 46
16.20	34	93.44	5 01	16.20	13	3.30	7 20	15.69	47	11.83	5 53	16.20	20	20.04	3 38	15.80	52	27.99	2 38
15.61	34	93.52	7 38	15.93	13	3.32	3 58	11.47	48	11.95	1 30	15.37	20	20.04	8 02	16.20	52	28.06	4 37
16.20	34	93.53	5 24	15.42	14	3.58	8 57	16.20	49	12.34	1 16	15.87	21	20.31	5 33	16.20	52	28.10	5 00
15.79	35	93.64	6 54	15.40	15	3.85	7 05	15.58	50	12.41	3 08	15.93	22	20.49	0 10	16.20	53	28.14	1 14
16.20	36	93.99	1 24	16.20	16	3.90	9 03	16.20	52	13.05	3 22	15.00	22	20.51	6 40	16.20	53	28.26	0 47
15.03	36	94.00	9 33	15.40	16	4.05	6 13	16.20	53	13.22	3 29	16.20	23	20.71	3 38	16.20	53	28.32	8 28
15.54	36	94.01	1 44	15.87	19	4.65	0 26	13.44	54	13.42	1 24	16.20	23	20.76	9 36	14.79	54	28.43	2 31
15.64	36	94.06	4 19	16.11	19	4.85	4 15	16.20	54	13.47	1 52	16.20	24	20.89	9 22	15.85	54	28.46	1 36
16.11	39	94.65	8 02	15.83	20	4.98	4 56	15.83	54	13.53	6 05	16.11	25	21.17	3 08	15.87	54	28.56	2 54
15.60	39	94.83	9 53	14.87	22	5.57	5 49	15.79	55	13.69	3 46	15.64	25	21.35	8 20	15.37	55	28.66	9 07
15.79	41	95.22	3 57	15.64	24	5.97	8 05	15.37	55	13.71	9 41	16.20	26	21.49	3 25	15.83	55	28.76	8 14
16.20	41	95.32	7 48	15.72	25	6.20	9 34	15.72	56	13.99	8 47	15.69	26	21.50	4 25	16.20	56	28.94	7 33
16.11	43	95.68	0 32	15.69	25	6.26	8 22	16.20	59	14.72	3 36	16.20	26	21.59	7 09	15.64	57	29.18	1 36
14.13	43	95.76	7 07	16.20	26	6.60	4 24	16.20	59	14.73	3 31	15.79	27	21.74	4 43	15.57	57	29.22	5 03
16.20	43	95.78	1 28	15.64	27	6.78	0 30	15.93	59	14.79	9 05	15.73	29	22.13	9 22	16.20	57	29.24	8 40
16.20	44	96.00	0 24	15.61	27	6.86	1 45	15.91	59	14.82	5 15	15.05	29	22.14	1 24	16.20	59	29.65	6 48
16.20	46	96.38	1 55	16.20	28	6.90	6 28	16.20	33 0	14.88	8 44	15.95	29	22.28	9 18	15.73	59	29.69	5 54
16.20	46	96.52	8 03	15.83	28	6.98	5 41	14.65	0	14.97	5 21	16.20	29	22.30	4 34	15.66	59	29.81	8 43
15.49	46	96.52	9 15	15.45	28	7.00	1 12	14.79	2	15.51	8 04	15.12	30	22.61	5 45	15.91	34 0	29.92	1 40
16.20	47	96.77	1 56	15.85	28	7.09	0 31	15.54	3	15.72	3 53	15.54	32	22.96	9 58	14.10	1	30.35	3 48
10.58	48	96.91	4 05	16.20	29	7.32	4 51	15.51	4	15.90	5 52	15.45	32	22.99	8 16	16.20	1	30.36	1 55
15.89	48	96.94	9 02	15.69	29	7.36	4 36	16.20	4	16.12	3 01	16.20	32	23.00	3 11	14.31	2	30.57	5 38
16.20	48	97.11	5 44	15.51	30	7.46	1 22	15.95	4	16.12	1 22	15.31	32	23.00	2 52	14.31	5	31.25	4 40
16.11	52	97.99	2 50	15.85	31	7.73	6 28	15.77	5	16.25	9 38	15.31	32	23.07	6 15	15.10	7	31.77	8 16
15.33	52	98.09	0 27	15.72	31	7.74	4 00	15.37	6	16.39	3 36	16.20	32	23.09	3 45	15.17	9	32.18	5 19
16.11	54	98.39	5 13	15.54	31	7.74	5 20	15.87	7	16.70	9 09	15.95	32	23.09	1 54	15.17	9	32.24	3 20
16.20	54	98.50	3 45	16.11	31	7.86	8 53	15.40	7	16.71	1 12	16.11	33	23.37	2 41	16.20	10	32.40	−9 23
15.95	54	98.61	8 05	15.58	32	8.02	5 43	15.85	9	17.13	2 04	16.11	35	23.70	0 20	14.93	30 13	73.20	+7 48
15.89	54	98.61	8 34	15.69	32	8.06	7 41	15.88	9	17.20	9 59	16.20	35	23.73	0 54	12.60	13	73.24	1 57
15.57	55	98.70	4 26	16.20	34	8.43	3 50	15.61	9	17.31	4 41	16.20	35	23.79	5 59	8.8[1]	14	73.53	8 17
15.95	56	98.88	0 55	16.20	34	8.53	3 34	16.20	9	17.34	3 01	15.79	36	23.89	7 00	16.20	15	73.75	5 43
15.87	58	99.39	3 26	16.20	34	8.57	2 04	16.20	10	17.38	8 14	15.73	36	23.97	6 37	15.95	15	73.75	3 26
15.17	58	99.59	9 21	13.05	35	8.65	3 28	15.79	10	17.49	5 29	15.66	36	24.05	0 52	15.91 ?	16	73.99	0 55
15.69	59	99.79	0 40	14.48	35	8.70	7 17	15.51	10	17.54	0 16	15.33	36	24.11	8 02	15.93	17	74.34	5 58
15.61	59	99.80	3 09	15.05	35	8.77	6 16	15.89	10	17.62	3 57	16.11	38	24.38	7 21	15.66	18	74.58	7 42
16.20	32 0	99.89	2 11	16.20	35	8.87	8 28	15.85	12	18.05	4 48	13.32	39	24.65	1 48	15.95	19	74.72	6 44
15.80	0	0.00	8 38	15.49	36	9.05	7 05	15.54	12	18.12	0 38	16.20	41	25.14	7 44	15.88	20	74.89	0 12
15.57	1	0.28	3 56	15.33	36	9.06	8 43	14.79	13	18.13	6 27	16.20	42	25.47	5 37	16.20	20	74.92	7 41
15.45	3	0.80	9 49	16.11	38	9.44	5 52	16.20	13	18.37	1 36	16.20	43	25.63	6 03	16.11	20	75.00	2 04
15.67	4	1.01	0 11	15.27	39	9.66	3 22	15.76	14	18.61	6 49	11.42	44	25.97	2 47	15.76	22	75.39	8 54
15.23	4	1.05	6 31	16.20	40	10.04	0 39	15.83	14	18.61	8 59	14.31	44	25.97	5 30	16.03	22	75.52	0 11
15.83	7	1.71	8 00	12.83	41	10.25	1 38	16.20	16	19.10	3 52	15.95	45	26.16	5 39	15.95	22	75.56	8 10
16.20	8	2.07	7 40	15.95	41	10.27	5 38	15.83	17	19.20	7 52	14.79	45	26.20	7 51	16.20	22	75.60	5 01
14.65	9	2.31	2 21	15.66	42	10.56	8 24	16.11	17	19.31	6 51	15.79	46	26.46	2 13	15.73	23	75.70	5 59
16.20	9	2.32	8 14	14.79	44	10.97	7 52	15.54	18	19.41	2 12	16.20	46	26.52	3 33	15.17	23	75.71	3 26
15.61	10	2.42	8 25	16.20	44	11.07	8 14	15.95	18	19.47	2 27	15.95	49	27.15	1 44	16.20	26	76.50	2 21
15.85	12	2.90	8 15	16.20	44	11.09	1 55	16.11	18	19.51	3 52	16.11	50	27.56	0 40	14.31	27	76.71	7 57
15.93	12	2.98	4 26	16.20	46	11.53	8 10	14.93	18	19.54	9 30	15.94	50	27.57	9 46	16.20	29	77.21	+6 04

[1] Magnitude uncertain, extrapolated. Magn. A.G.C. = 9.0.

25 prec. + 77 sec. — 3′ 6″.

1351—1400				1401—1450				1451—1500				1501—1550				1551—1600			
Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′	Int. magn.	α	x	y—10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.20	30 29	77.24	9 36	15.76	31 7	86.65	4 47	15.61	31 42	95.40	9 31	15.73	32 11	2.74	7 31	15.85	32 41	10.35	1 19
16.20	29	77.32	6 36	14.93	8	86.97	3 37	12.58	43	95.71	7 37	15.83	11	2.84	8 46	16.20	41	10.35	4 13
16.20	32	77.93	5 52	15.73	9	87.14	9 19	15.87	44	95.88	3 35	16.20	12	2.88	7 13	15.80	42	10.55	1 00
14.93	32	78.10	1 35	16.11	11	87.74	5 50	15.05	44	96.11	5 58	16.11	13	3.18	1 47	15.85	42	10.60	0 44
15.93	32	78.10	7 02	16.20	11	87.75	9 07	15.69	45	96.14	9 33	15.05	14	3.56	4 12	15.87	42	10.62	4 10
15.61	35	78.64	3 22	16.20	12	87.92	7 32	15.80	45	96.29	3 10	15.54	14	3.57	3 52	15.85	43	10.70	2 13
16.20	35	78.66	4 19	16.20	12	87.94	8 42	15.69	45	96.31	5 36	15.72	14	3.58	8 52	15.83	43	10.86	9 11
15.80	35	78.70	1 46	16.11	12	87.94	1 52	15.91	45	96.32	5 47	15.85	15	3.77	5 41	15.45	45	11.18	9 47
15.85	36	79.00	7 51	16.20	12	87.96	9 49	15.80	46	96.52	1 11	15.76	16	3.88	3 38	15.87	45	11.24	3 51
15.40	36	79.00	1 46	15.93	12	88.10	6 32	16.20	47	96.87	6 29	15.66	16	3.94	4 21	15.89	47	11.75	1 57
11.57	36	79.07	9 26	16.20	13	88.25	9 44	15.91	49	97.18	8 43	15.61	16	4.04	0 32	15.64	47	11.76	3 08
15.00	36	79.07	9 02	13.44	14	88.42	1 36	16.20	50	97.50	9 12	15.58	17	4.17	5 51	15.85	47	11.84	4 15
15.80	37	79.36	5 23	15.54	14	88.54	8 00	16.20	50	97.57	0 20	15.83	17	4.36	6 13	15.80	48	11.88	6 12
15.79	39	79.64	4 01	16.20	16	88.94	4 01	16.20	51	97.66	0 15	14.93	18	4.53	5 49	16.11	48	11.94	2 04
16.20	39	79.70	3 23	15.33	17	89.34	7 00	12.67	51	97.80	4 28	15.23	18	4.54	5 14	15.79	48	12.09	6 23
14.98	40	79.87	9 27	15.54	17	89.34	2 34	13.13	51	97.83	1 43	16.20	18	4.57	8 31	15.83	49	12.13	9 16
15.79	41	80.20	5 32	14.85	18	89.43	6 17	15.49	51	97.84	9 03	15.33	19	4.65	1 15	15.80	49	12.23	5 29
16.20	41	80.23	1 46	15.87	19	89.64	8 34	16.20	52	97.99	5 35	15.83	19	4.68	9 44	16.20	49	12.27	4 32
15.69	41	80.32	5 20	15.83	19	89.70	4 53	15.00	52	98.11	1 13	15.93	19	4.73	3 36	13.22	50	12.43	7 37
15.91	42	80.51	6 30	15.40	19	89.87	6 47	15.93	53	98.20	6 26	15.87	19	4.74	5 37	15.66	50	12.51	5 31
16.20	43	80.65	9 12	16.20	21	90.23	6 40	15.69	54	98.40	5 52	15.90	20	5.03	0 26	16.20	51	12.71	0 55
11.38	43	80.71	9 25	15.42	22	90.44	9 13	16.20	54	98.48	3 56	16.11	20	5.05	4 11	15.66	52	13.03	5 10
16.11	43	80.79	4 25	15.95	22	90.49	3 29	16.03	54	98.60	0 11	16.20	20	5.05	1 27	16.20	52	13.11	1 43
16.20	45	81.15	6 24	15.87	22	90.51	7 04	16.20	56	99.09	8 30	15.40	21	5.23	4 46	15.95	54	13.38	2 15
15.64	45	81.30	5 31	15.87	22	90.53	1 59	15.83	57	99.16	5 27	16.20	21	5.27	9 30	15.89	54	13.46	4 40
16.20	46	81.49	2 21	16.20	22	90.57	3 10	15.87	57	99.22	7 29	15.45	21	5.36	7 30	15.76	55	13.72	6 43
15.89	47	81.77	1 54	15.00	23	90.75	8 31	16.11	59	99.79	7 36	15.73	22	5.37	2 11	15.76	56	14.02	8 11
15.79	49	82.28	2 55	16.20	25	91.14	0 10	16.20	32 0	99.91	1 25	16.20	23	5.77	8 11	15.87	56	14.02	6 01
16.20	50	82.45	7 42	15.58	26	91.45	8 38	15.21	0	0.10	3 35	15.82	23	5.80	0 19	15.91	56	14.12	6 59
15.64	50	82.49	7 27	15.93	27	91.74	2 17	16.20	1	0.21	2 02	16.20	24	6.08	7 56	15.77	57	14.15	9 32
15.95	51	82.63	4 39	15.91	27	91.84	2 28	15.80	1	0.34	3 53	15.89	25	6.19	4 38	15.93	57	14.16	9 52
16.20	51	82.66	5 11	15.79	29	92.21	0 36	15.21	2	0.60	0 56	16.20	25	6.19	5 09	15.51	58	14.40	7 33
15.89	51	82.68	4 57	15.89	29	92.23	7 08	15.17	3	0.68	3 02	16.20	25	6.22	5 33	15.27	58	14.49	5 53
16.20	52	82.89	1 15	15.58	30	92.54	5 59	15.33	4	0.94	7 28	15.58	25	6.30	1 33	15.64	33 0	15.05	2 19
15.17	53	83.19	3 04	16.20	33	93.17	5 29	15.72	5	1.17	3 29	12.38	26	6.56	7 37	16.11	1	15.32	1 49
15.85	53	83.20	8 21	14.45	33	93.19	9 35	15.79	5	1.29	5 50	15.95	27	6.76	3 42	16.20	1	15.33	8 59
15.80	54	83.45	5 03	15.93	33	93.21	2 21	16.11	6	1.39	9 38	16.20	27	6.86	4 21	15.57	2	15.48	1 38
16.20	54	83.47	1 15	15.93	33	93.23	6 48	16.20	6	1.49	3 26	15.58	29	7.26	4 29	15.42	2	15.49	2 32
15.87	55	83.67	2 45	15.95	34	93.43	8 53	15.57	6	1.49	0 43	15.85	29	7.36	3 25	15.89	3	15.65	1 13
15.83	55	83.74	5 28	15.64	34	93.58	9 05	14.31	7	1.67	8 39	15.95	31	7.65	3 12	16.20	3	15.73	9 58
16.11	57	84.33	4 48	15.91	35	93.65	1 58	9.41	7	1.69	9 29	16.20	31	7.85	7 41	15.45	3	15.79	4 00
15.87	59	84.82	4 11	15.85	36	93.95	6 12	15.95	7	1.77	5 21	16.20	32	7.94	3 55	15.31	3	15.82	4 07
15.85	31 2	85.54	9 58	16.20	36	94.11	6 12	15.85	7	1.79	7 21	16.20	32	7.96	8 48	16.11	4	15.92	8 30
14.98	3	85.70	0 13	16.20	36	94.11	4 37	15.66	7	1.84	0 19	15.76	32	8.09	9 17	15.31	4	15.97	1 22
15.05	4	85.88	7 47	16.11	37	94.13	4 05	16.20	8	1.92	4 45	16.20	34	8.53	9 09	16.20	5	16.19	8 30
15.91	4	85.93	5 43	16.20	37	94.32	5 16	15.73	10	2.38	3 27	15.45	36	8.92	3 59	15.95	6	16.47	3 14
16.20	5	86.26	6 06	15.85	38	94.41	4 37	15.95	10	2.40	4 59	15.79	36	8.94	8 19	15.95	6	16.47	2 52
15.76	5	86.29	4 35	14.87	40	94.93	2 17	16.20	10	2.56	0 56	15.89	36	9.05	7 59	16.20	8	16.96	1 07
16.20	6	86.46	9 05	16.11	41	95.14	3 36	15.72	11	2.67	5 56	15.91	39	9.84	1 42	16.03	8	17.00	9 43
15.17	6	86.57	6 31	14.62	42	95.39	9 25	15.69	11	2.69	1 39	16.20	40	9.99	8 53	15.95	8	17.08	7 56

25 prec. + 77 sec. — 3′ 8″.

1601—1650				1651—1700				1701—1750				1751—1800				1801—1850			
Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′	Int. magn.	α	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.20	33 8	17.12	7 16	11.51	33 34	23.60	7 40	15.95	34 8	32.07	8 00	16.20	30 43	80.69	15 20	15.80	31 19	89.76	10 00
14.93	9	17.36	7 06	15.83	35	23.77	3 41	12.58	9	32.24	4 57	16.20	43	80.87	15 13	15.83	19	89.81	12 04
16.20	9	17.40	7 42	14.48	36	23.99	7 33	15.37	9	32.25	2 18	15.54	44	80.88	16 14	14.38	20	89.88	10 05
15.64	10	17.41	7 25	15.83	36	24.10	4 04	16.20	9	32.32	7 47	16.20	44	81.07	15 36	15.10	20	90.02	13 22
16.03	10	17.55	0 25	15.89	38	24.38	7 05	15.51	10	32.54	8 32	16.20	44	81.10	15 31	15.66	21	90.19	12 30
15.87	10	17.61	1 39	15.33	39	24.64	2 52	15.40	11	32.70	1 17	15.93	46	81.54	11 40	16.20	21	90.34	19 34
15.87	10	17.61	5 47	15.87:	40	25.06	2 29	15.83:	11	32.74	7 46	16.20	47	81.85	13 58	13.90	22	90.57	10 30
15.61	11	17.67	7 10	16.11	40	25.09	0 00	16.20	11	32.76	2 38	13.90	50	82.47	17 48	15.83	22	90.58	16 18
15.83	11	17.83	8 52	12.17	43	25.84	5 40	16.11	30 12	73.12	18 20	16.20	51	82.67	15 19	16.20	24	90.91	13 52
15.95	12	17.94	5 04	15.91	44	25.97	6 12	15.54	13	73.22	11 02	15.93	51	82.84	18 13	16.20	25	91.32	14 29
16.20	13	18.23	0 42	16.20	45	26.17	8 41	16.20	13	73.24	17 10	15.85	53	83.27	11 25	16.11	25	91.37	10 17
16.20	13	18.29	3 37	16.20	46	26.59	7 22	15.72	13	73.33	12 30	15.95	54	83.40	11 49	15.54	27	91.63	17 33
16.20	14	18.43	6 07	15.87	47	26.87	2 10	15.76	14	73.55	14 20	15.05	54	83.57	14 13	16.20	27	91.84	15 46
15.80	14	18.61	5 55	15.64	48	27.00	6 44	15.87	15	73.83	18 14	16.20	56	83.99	16 57	13.22	28	91.93	10 07
16.20	15	18.72	3 48	15.87	48	27.01	5 12	16.20	16	74.01	19 05	15.83	57	84.24	13 00	16.20	28	91.97	19 40
15.37	16	18.90	7 08	15.87	48	27.08	5 17	16.20	16	74.01	16 11	16.11	57	84.27	12 39	16.20	29	92.22	15 16
16.11	16	19.10	9 30	16.20	49	27.19	7 49	15.69	17	74.22	11 30	16.20	57	84.35	10 00	15.69	29	92.24	16 10
15.83	16	19.10	8 14	15.87	49	27.29	0 51	16.20	18	74.62	15 00	16.20	58	84.39	14 41	16.20	30	92.41	15 20
16.20	16	19.12	5 38	15.93	51	27.63	0 53	14.85	19	74.83	18 17	16.20	58	84.57	16 52	16.20	31	92.64	14 18
15.85	17	19.16	4 25	15.58	52	27.95	6 08	16.20	19	74.84	14 44	16.20	59	84.68	17 42	16.20	31	92.73	19 39
16.20	17	19.26	6 35	15.23	52	27.95	9 12	16.20	20	74.90	10 38	15.57	59	84.86	13 52	15.89	32	93.07	19 59
15.73	18	19.38	1 47	15.69	52	27.96	4 55	14.87	21	75.26	11 10	15.83	31 0	84.94	14 22	15.12	33	93.33	12 43
16.20	18	19.40	3 39	16.20	52	28.00	6 50	16.20	21	75.30	14 54	15.72	0	85.02	19 22	15.79	34	93.39	11 13
14.93	18	19.60	0 58	16.20	53	28.22	3 54	15.17	23	75.87	15 36	15.85	0	85.11	13 04	15.76	34	93.43	15 20
16.11	19	19.80	7 24	16.11	53	28.22	4 48	14.93	23	75.89	18 19	11.92	1	85.14	17 26	16.20	34	93.48	17 00
16.11	20	19.89	7 24	15.49	53	28.24	5 23	13.32	24	76.01	14 55	13.76	2	85.38	12 44	15.80	35	93.63	17 35
16.20	20	19.90	5 05	14.93	54	28.42	7 22	15.51	26	76.38	19 51	15.95	2	85.59	14 41	16.20	36	93.91	10 56
15.93	20	19.97	6 51	16.20	54	28.44	4 53	16.20	26	76.41	16 19	15.95	3	85.84	19 13	15.76	36	93.98	13 51
15.49	20	20.02	0 52	12.48	54	28.57	1 56	15.61	26	76.51	15 33	15.85	5	86.36	11 41	15.85	36	94.11	19 30
16.20	21	20.22	8 10	15.91	55	28.78	8 09	15.87	27	76.79	11 58	16.20	6	86.45	16 42	15.45	37	94.13	19 07
15.73	22	20.58	3 49	15.64	56	29.06	8 52	15.66	27	76.80	13 20	16.20	6	86.47	16 25	16.20	37	94.19	17 16
15.93	23	20.79	0 26	16.20	58	29.50	5 20	16.20	28	76.97	13 43	15.66	6	86.50	10 58	15.83	38	94.47	12 34
15.17	23	20.87	2 26	16.20	58	29.58	0 08	15.70	29	77.28	10 13	15.57	7	86.74	14 47	13.22	38	94.62	18 39
15.89	24	20.89	2 39	15.19	59	29.75	9 33	16.20	29	77.33	10 54	15.69	8	86.95	13 23	16.20	39	94.81	10 23
16.20	24	20.90	2 20	15.57	59	29.81	8 11	15.85	30	77.45	10 17	15.12	9	87.25	11 02	16.20	39	94.83	11 08
15.91	24	20.96	8 20	16.20	34 0	29.91	3 59	15.57	30	77.49	13 50	15.76	9	87.26	16 09	16.11	40	95.12	19 05
16.20	25	21.29	1 08	15.89	0	29.95	6 39	15.66	30	77.51	19 45	15.10	9	87.35	13 02	16.20	42	95.52	11 53
15.64	25	21.30	8 44	15.85	0	29.95	2 43	14.48	31	77.72	16 23	15.69	10	87.59	10 42	16.20	42	95.53	11 32
15.83	28	22.00	8 04	16.11	0	30.03	7 02	16.20	32	77.91	12 12	15.91	11	87.85	13 34	13.77	43	95.76	12 22
15.94	28	22.03	9 57	14.58	1	30.13	9 33	15.79	33	78.30	15 32	15.66	11	87.86	16 50	15.93	43	95.79	17 32
16.20	29	22.19	9 50	16.11	1	30.16	3 20	14.73	33	78.30	15 41	15.66	11	87.87	10 11	15.87	44	96.01	17 16
15.61	30	22.61	6 58	16.20	1	30.16	7 28	16.20	35	78.76	17 50	15.69	11	87.87	19 40	15.64	46	96.61	17 22
15.89	31	22.75	2 30	15.51	1	30.33	1 27	16.20	35	78.81	19 55	13.08	12	87.95	17 42	16.20	47	96.81	12 38
15.05	31	22.77	3 43	16.11	2	30.44	5 32	15.83	37	79.16	14 02	13.76	12	88.07	14 06	15.27	47	96.81	10 16
15.85	31	22.79	7 02	15.21	7	31.63	9 26	16.20	37	79.21	13 41	15.87	13	88.33	13 36	14.93	47	96.83	17 38
16.20	32	22.89	1 00	15.23	7	31.64	8 17	15.45	38	79.49	15 31	15.91	15	88.68	19 56	16.20	49	97.16	12 48
16.20	32	22.97	4 28	15.45	7	31.65	8 28	15.73	39	79.86	16 41	16.20	16	88.93	14 59	16.20	50	97.62	13 51
15.54	33	23.26	8 51	15.72	7	31.69	6 44	15.66	41	80.19	16 41	16.11	17	89.15	10 01	11.49	51	97.85	18 08
15.58	33	23.28	9 07	16.20	7	31.85	7 26	11.38	42	80.51	19 17	14.93	17	89.24	11 48	16.20	51	97.87	13 52
15.80	33	23.29	2 59	15.95	8	31.94	9 38	15.73	42	80.59	18 18	16.20	18	89.44	17 14	15.83	53	98.20	13 16

25 prec. + 77 sec. — 3′ 7″.

1851—1900				1901—1950				1951—2000				2001—2050				2051—2078			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.83	31 54	98.40	16 37	16.20	32 34	8.41	11 39	15.89	33 0	14.98	15 45	16.20	33 34	23.44	16 12	16.20	33 56	29.10	12 55
15.72	54	98.50	10 28	15.89	35	8.86	12 13	16.20	0	14.99	13 17	15.23	34	23.46	12 22	15.40	57	29.17	12 20
16.20	55	98.71	15 13	15.91	36	8.91	13 16	16.11	0	15.07	10 28	16.20	34	23.47	17 38	15.91	57	29.29	10 49
16.20	55	98.85	19 17	15.45	37	9.29	11 47	16.20	1	15.22	17 27	14.10	35	23.64	18 44	15.58	57	29.30	15 04
15.87	56	98.91	16 53	15.61	38	9.54	14 28	12.97	1	15.24	19 17	16.20	35	23.82	17 46	14.93	57	29.36	13 56
15.21	59	99.77	18 41	16.20	38	9.55	17 10	16.20	1	15.37	13 43	15.72	36	23.97	18 18	15.93	58	29.44	10 25
16.20	32 0	99.88	15 36	15.93	38	9.57	10 42	15.61	2	15.40	17 42	13.05	36	24.05	12 53	15.51	58	29.44	17 20
16.20	0	99.92	16 44	15.66	39	9.75	12 24	15.64	3	15.73	14 20	15.54	36	24.08	10 06	16.20	59	29.74	14 49
16.20	0	99.94	14 40	16.11	39	9.86	15 45	12.38	3	15.82	15 53	16.20	36	24.08	17 37	15.91	59	29.77	14 36
15.93	0	0.08	18 21	15.93	40	10.04	19 34	15.80	6	16.38	13 55	16.20	37	24.20	17 54	15.79	34 1	30.29	13 29
16.20	1	0.31	17 46	8.54*	40	10.04	14 51	15.85	6	16.51	19 35	14.31	38	24.47	15 25	15.89	2	30.55	11 49
15.95	3	0.68	17 21	15.80	40	10.12	18 15	15.95	7	16.72	14 52	16.20	39	24.77	18 09	15.83	2	30.62	11 28
12.27	6	1.39	14 43	16.20	41	10.19	11 16	15.89	7	16.86	19 36	14.65	40	24.88	15 01	15.95	3	30.65	15 15
16.20	6	1.49	18 09	16.20	41	10.25	11 09	16.20	9	17.15	13 40	15.87	40	24.99	17 59	16.20	3	30.66	11 09
16.20	7	1.71	15 07	16.20	41	10.33	18 47	16.20	10	17.45	15 50	16.20	41	25.18	10 59	16.20	3	30.83	15 13
16.20	8	1.89	18 17	15.79	43	10.66	10 57	16.20	10	17.49	16 15	13.76	41	25.27	19 15	15.72	4	30.96	18 19
14.73	8	1.89	18 33	15.95	43	10.66	15 48	15.72	10	17.50	13 35	15.95	42	25.48	14 19	15.54	4	30.97	15 39
16.20	8	2.11	13 38	11.59	43	10.75	11 27	16.20	10	17.61	12 54	15.89	42	25.58	16 32	16.20	5	31.14	12 20
15.33	9	2.29	16 34	13.22	44	10.83	17 14	15.54	12	17.92	10 39	16.20	42	25.58	14 20	16.20	6	31.51	12 19
15.72	9	2.33	10 21	15.40	45	11.13	11 08	15.73	12	17.98	15 55	13.32	43	25.62	19 55	15.27	6	31.54	14 01
15.95	10	2.41	15 40	15.76	45	11.22	14 48	15.66	12	18.07	19 00	16.20	43	25.67	17 36	15.17	7	31.68	11 04
16.20	10	2.58	11 19	15.85	46	11.41	17 49	14.10	13	18.31	19 24	15.95	43	25.68	15 33	15.54	7	31.80	11 46
15.89	11	2.79	19 29	15.42	46	11.52	12 11	16.20	13	18.36	11 07	15.93	44	25.88	12 02	15.58	7	31.84	16 22
16.20	12	2.95	10 19	15.66	46	11.55	12 29	16.20	16	18.92	16 33	13.00	44	25.93	18 24	16.20	8	31.92	19 28
15.64	13	3.37	10 06	14.48	47	11.84	15 16	14.79	16	18.96	16 27	15.17	44	25.94	18 18	16.20	9	32.22	16 37
15.42	14	3.42	13 47	15.69	48	11.96	11 42	15.31	17	19.20	12 57	15.93	45	26.16	16 42	15.85	10	32.61	11 26
15.83	14	3.48	11 34	15.69	48	12.03	12 48	15.91	18	19.45	10 39	16.11	45	26.19	16 23	14.93	11	32.72	11 09
15.58	15	3.65	12 42	15.64	48	12.05	15 11	15.95	18	19.47	18 12	16.20	45	26.27	15 05	16.20	11	32.87	13 43
15.83	15	3.82	18 21	14.79	48	12.05	10 51	16.20	18	19.51	10 17	16.20	46	26.47	11 23				
15.83	16	3.90	19 38	16.20	49	12.16	19 15	15.51	19	19.71	19 59	15.42	46	26.53	12 39				
16.20	16	4.05	17 01	15.91	49	12.22	11 53	15.93	20	19.92	12 38	15.89	46	26.59	10 57				
16.20	18	4.57	11 51	15.64	49	12.25	16 37	16.20	21	20.18	12 48	16.20	47	26.86	13 26				
15.93	20	4.97	17 37	16.20	49	12.33	18 50	15.95	21	20.29	18 29	15.57	48	27.07	13 44				
15.89	21	5.17	18 39	16.20	50	12.52	10 04	15.85	22	20.47	16 05	15.73	48	27.09	13 00				
14.65	21	5.23	13 33	15.72	50	12.54	13 59	16.20	22	20.59	19 38	15.31	49	27.17	10 52				
15.72	21	5.32	15 48	14.10	51	12.63	15 03	11.47	23	20.75	15 47	15.80	49	27.27	13 28				
15.80	25	6.36	17 50	14.31	51	12.64	19 45	15.95	24	20.89	15 37	15.95	50	27.44	18 22				
15.87	26	6.62	11 44	16.20	51	12.72	13 42	15.93	24	20.98	12 19	15.85	50	27.55	19 57				
13.28	27	6.67	19 54	16.20	51	12.79	13 34	15.54	24	21.00	19 49	14.79	51	27.71	17 10				
15.37	28	7.02	16 57	15.45	52	13.05	17 12	16.20	24	21.09	18 53	15.80	51	27.74	11 42				
16.20	29	7.22	14 13	15.85	53	13.34	15 43	15.66	25	21.37	18 51	15.37	51	27.84	19 47				
15.00	29	7.36	15 03	15.27	54	13.49	15 01	15.87	25	21.37	10 42	15.12	52	27.96	12 02				
16.20	30	7.56	14 39	15.83	54	13.50	14 41	15.80	26	21.40	15 20	15.61	52	28.02	11 55				
16.20	30	7.58	10 59	15.89	55	13.73	15 21	16.20	26	21.58	10 42	15.79	53	28.13	11 00				
15.66	31	7.78	18 56	16.20	55	13.73	12 38	15.87	27	21.83	15 23	15.58	54	28.44	13 36				
13.00	32	8.06	10 37	15.27	55	13.84	16 39	15.69	28	22.00	15 28	16.20	54	28.57	14 00				
15.61	32	8.06	10 17	14.58	58	14.48	11 52	16.20	32	22.90	18 28	15.72	55	28.76	15 22				
13.22	33	8.13	18 14	15.69	59	14.82	18 10	15.51	33	23.15	19 53	15.89	56	29.05	19 29				
15.69	33	8.23	14 00	16.11	59	14.84	14 14	16.20	33	23.18	19 15	14.93	56	29.06	15 06				
16.20	33	8.24	16 24	15.83	33 0	14.96	13 48	15.93	34	23.41	10 18	15.76	56	29.07	14 16				

25 prec. + 77 sec. — 3′ 5″.

Area 109. Centre for 1900: $17^h\ 40^m$ — 0° 10′.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$	Int. magn.	α	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.33	38 25	76.27	29 27	15.39	38 52	83.00	28 09	15.72	39 11	87.81	25 15	16.62	39 32	93.02	28 33	16.11	39 55	98.64	20 28
16.53	25	76.27	27 51	16.20	52	83.09	20 22	12.61	12	87.93	20 45	16.62	32	93.11	21 52	16.62	55	98.72	29 04
16.26	27	76.63	29 08	15.99	53	83.16	25 36	16.16	12	87.98	21 37	16.53	33	93.16	27 55	16.62	57	99.33	26 36
16.33	28	76.99	23 08	16.53	53	83.16	29 35	16.62	13	88.22	24 51	16.53	33	93.26	25 49	15.78	58	99.48	23 25
16.37	28	77.00	22 09	16.62	53	83.17	28 27	16.53	13	88.26	20 55	15.42	34	93.56	21 43	16.22	58	99.55	25 37
16.37	28	77.09	20 18	15.86	53	83.27	26 54	15.64	13	88.28	23 45	16.62	35	93.64	21 17	16.37	58	99.59	21 17
15.16	30	77.46	24 17	14.40	53	83.36	24 53	15.16	13	88.32	25 24	16.37	36	93.89	24 27	16.62	59	99.79	26 48
16.33	30	77.58	21 13	14.19	54	83.39	27 09	16.53	13	88.33	28 09	15.86	36	94.03	24 39	16.62	40 0	99.87	29 59
16.31	30	77.61	20 46	16.62	54	83.44	24 18	15.16	14	88.42	21 14	15.78	36	94.05	23 35	16.09	0	99.92	27 22
16.62	31	77.82	22 41	16.53	54	83.57	22 47	16.62	14	88.57	28 41	16.26	36	94.07	26 52	16.62	0	0.06	29 52
16.62	32	77.94	27 51	16.20	54	83.59	24 54	16.11	15	88.72	21 25	15.58	36	94.12	27 17	15.33	1	0.13	29 21
16.20	32	78.05	26 36	15.16	55	83.76	25 21	15.55	15	88.75	27 13	13.44	36	94.12	20 51	16.62	1	0.28	29 43
16.09	35	78.79	21 49	15.78	55	83.87	28 13	15.97	15	88.75	29 52	16.11	37	94.36	29 34	15.48	2	0.38	24 04
15.97	35	78.80	28 13	16.62	57	84.13	21 29	15.92	15	88.79	24 16	16.62	38	94.40	25 16	16.26	2	0.48	26 08
16.62	35	78.82	24 08	16.62	57	84.16	22 54	16.62	15	88.85	24 11	15.86	38	94.48	28 13	14.61	2	0.58	29 59
16.53	35	78.82	25 06	14.99	57	84.24	27 11	15.06	16	88.95	21 11	16.62	38	94.52	24 06	16.62	2	0.61	27 40
16.53	36	78.90	24 19	15.97	57	84.33	26 13	15.26	16	88.99	24 38	16.62	38	94.52	23 45	16.53	3	0.71	26 19
15.16	36	78.92	27 19	14.99	58	84.47	21 41	14.40	17	89.26	26 01	15.97	39	94.63	20 16	16.37	3	0.75	27 45
14.40	36	78.97	29 06	15.84	58	84.53	24 05	16.62	19	89.65	29 46	16.09	39	94.77	28 38	15.16	4	0.88	21 21
16.26	36	79.00	27 17	15.99	58	84.56	28 13	15.86	19	89.65	28 01	15.92	40	94.91	25 24	14.80	5	1.29	26 48
15.86	36	79.09	20 27	11.53	58	84.61	22 18	16.33	19	89.74	26 03	16.62	40	94.92	23 20	16.62	5	1.37	27 01
16.53	37	79.22	20 18	15.70	59	84.67	23 39	16.20	20	89.91	23 55	16.62	41	95.37	24 03	16.20	6	1.43	28 14
16.16	37	79.29	29 59	13.15	59	84.73	20 28	16.62	20	90.09	20 46	16.62	42	95.50	20 55	13.44	6	1.59	22 29
16.53	38	79.48	24 51	15.48	59	84.77	23 33	16.16	21	90.33	22 58	14.40	45	96.14	22 51	16.11	7	1.66	20 58
16.16	39	79.66	22 25	16.62	59	84.77	29 30	16.53	21	90.33	23 48	16.62	45	96.21	29 49	16.37	7	1.72	29 42
15.97	39	79.67	26 15	15.92	59	84.79	25 11	16.20	22	90.53	25 56	16.62	45	96.24	25 13	15.92	7	1.74	23 57
16.62	39	79.71	29 50	16.62	59	84.85	28 17	16.22	22	90.60	26 49	15.26	45	96.32	26 15	15.86	7	1.82	28 19
13.05	40	79.89	21 23	16.62	39 0	84.97	25 26	15.33	22	90.62	20 10	16.37	45	96.34	24 43	16.16	8	1.97	21 45
16.20	40	79.95	24 21	16.62	0	85.04	21 47	15.86	23	90.74	25 00	16.62	46	96.51	21 39	15.33	9	2.32	22 21
16.26	40	79.99	22 55	16.62	0	85.05	29 21	16.62	23	90.86	20 18	15.33	47	96.67	25 57	16.37	11	2.85	27 57
16.62	40	79.99	22 31	16.62	0	85.09	21 13	16.09	24	90.94	28 03	16.62	47	96.77	29 26	10.35	12	2.89	23 20
14.91	40	80.12	20 12	16.62	1	85.21	22 25	15.99	24	91.04	28 53	16.62	48	96.80	28 07	16.33	12	3.01	29 48
16.62	41	80.16	24 57	16.62	1	85.31	21 33	15.97	25	91.13	22 45	16.33	48	97.09	27 57	16.04	13	3.29	26 40
14.19	41	80.16	23 43	11.01	1	85.32	29 48	16.62	25	91.27	20 09	16.11	48	97.09	23 24	16.22	14	3.40	24 59
15.16	42	80.48	29 34	16.31	2	85.52	29 26	16.26	25	91.27	23 26	15.99	49	97.19	24 09	15.48	14	3.55	26 57
16.09	44	80.98	26 47	14.61	2	85.52	28 41	16.62	25	91.29	20 47	16.16	49	97.20	28 38	15.97	14	3.57	21 29
15.33	45	81.17	29 32	14.19	2	85.60	28 15	15.64	26	91.49	26 13	16.31	50	97.50	22 27	14.40	14	3.58	29 50
16.11	45	81.24	23 14	16.16	3	85.66	24 53	14.99	27	91.83	27 37	14.00	50	97.53	26 40	14.61	17	4.15	27 49
16.16	45	81.28	20 37	16.31	3	85.72	27 23	16.62	27	91.83	29 23	15.64	51	97.70	24 17	16.37	17	4.35	24 32
16.62	45	81.29	21 30	15.48	3	85.86	29 21	15.16	28	91.88	22 27	14.80	51	97.82	26 03	10.33	18	4.45	29 38
16.37	46	81.38	29 44	16.37	6	86.40	28 19	16.37	28	91.99	29 58	16.62	52	97.92	24 07	14.40	18	4.59	27 59
16.53	47	81.67	26 49	16.53	6	86.46	27 11	16.20	29	92.13	26 47	16.37	52	98.07	26 42	16.62	19	4.66	29 06
16.53	47	81.83	24 09	16.26	6	86.50	28 03	16.33	29	92.17	27 07	16.53	52	98.09	26 16	11.96	19	4.74	23 28
16.33	48	81.94	20 45	16.06	6	86.50	20 20	15.48	29	92.33	24 51	16.09	52	98.10	22 37	16.04	19	4.83	29 42
16.53	48	82.12	26 32	15.72	7	86.67	24 30	16.53	30	92.46	20 29	15.70	53	98.16	21 28	15.33	20	4.93	26 47
15.92	49	82.24	20 45	15.72	7	86.81	22 22	16.53	30	92.52	28 42	16.33	53	98.23	25 25	15.33	21	5.16	25 25
16.62	49	82.27	26 15	16.33	8	86.91	23 35	16.62	30	92.52	23 00	11.19	53	98.26	23 55	16.26	21	5.16	21 53
15.78	50	82.40	28 13	15.48	8	87.02	22 54	16.22	31	92.86	28 43	16.62	53	98.35	23 35	15.26	21	5.29	25 42
14.11	51	82.73	20 13	15.42	9	87.29	29 50	15.33	31	92.86	27 31	12.00	54	98.52	26 55	16.62	22	5.39	24 17
16.09	52	82.96	23 14	14.80	10	87.38	29 56	16.62	32	92.88	20 16	15.78	54	98.59	27 02	15.58	22	5.62	25 57

25 prec. + 77 sec. — 0′ 45″.

17^h Area 109. — 0°

251—300				301—350				351—400				401—450				451—500			
Int. magn.	a	x	y−10′	Int. magn.	a	x	y−10′	Int. magn.	a	x	y−10′	Int. magn.	a	x	y−10′	Int. magn.	a	x	y−10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.44	40 23	5.66	25 04	15.16	41 1	15.32	25 29	16.62	38 48	81.92	13 31	16.22	39 14	88.49	12 12	16.37	39 48	97.00	19 14
15.16	23	5.76	26 31	15.72	2	15.43	26 24	16.62	48	81.99	19 25	16.62	14	88.57	10 47	16.37	49	97.18	17 21
13.81	23	5.86	27 34	15.42	2	15.51	26 05	16.62	49	82.27	12 30	13.38	16	88.91	10 09	16.16	49	97.19	15 21
14.00	24	6.03	23 49	16.62	3	15.83	22 15	15.33	50	82.39	18 41	16.53	16	88.97	18 32	15.16	49	97.24	11 56
11.74	25	6.20	20 43	16.37	4	16.00	21 58	14.80	50	82.43	16 12	13.50	16	89.07	18 23	16.37	50	97.55	18 27
16.62	27	6.68	23 08	16.04	38 25	76.28	19 06	16.11	50	82.58	10 05	15.75	17	89.15	19 37	16.53	50	97.59	18 08
15.84	27	6.70	20 58	16.53	25	76.34	11 18	16.26	50	82.60	15 28	15.99	17	89.18	12 10	15.78	51	97.70	17 26
14.80	27	6.72	24 39	16.04	27	76.63	14 48	16.53	52	82.98	11 23	15.16	19	89.67	19 12	16.62	52	97.92	15 30
15.92	27	6.80	27 07	16.62	27	76.76	18 07	16.62	53	83.15	12 06	15.70	20	89.91	12 26	16.62	52	98.03	10 05
16.62	29	7.15	28 15	16.53	27	76.85	17 27	15.92	53	83.32	16 25	13.81	20	90.01	14 42	16.37	53	98.25	11 02
16.62	30	7.38	25 47	16.04	28	77.03	14 13	16.26	54	83.42	17 22	16.62	20	90.09	19 27	16.04	53	98.27	16 57
15.92	31	7.70	26 28	16.62	28	77.09	12 11	16.62	54	83.43	17 51	13.44	21	90.27	19 59	16.37	54	98.43	14 48
16.62	31	7.79	20 43	16.62	29	77.13	17 28	16.62	55	83.80	17 48	16.62	21	90.29	10 19	16.62	54	98.43	16 22
16.62	32	8.04	27 05	16.62	29	77.14	16 08	16.62	56	83.98	11 57	15.48	21	90.31	10 02	16.62	55	98.73	17 38
15.16	32	8.07	21 21	16.37	29	77.21	18 58	15.99	56	84.00	14 09	15.78	22	90.58	11 07	16.62	55	98.84	15 55
15.84	34	8.55	21 15	15.84	29	77.26	10 35	16.37	56	84.10	10 33	16.26	23	90.66	10 39	13.81	56	98.94	13 34
15.33	34	8.59	24 26	16.62	29	77.27	12 08	15.39	58	84.39	10 04	16.04	23	90.77	18 19	15.55	57	99.13	17 05
16.62	35	8.77	20 47	16.37	30	77.38	11 46	16.62	58	84.40	15 58	13.62	24	90.98	19 54	16.62	57	99.22	14 58
16.26	35	8.85	21 22	13.10	31	77.77	12 11	16.62	58	84.60	16 39	13.81	27	91.65	10 59	16.37	57	99.32	15 26
16.37	36	8.95	29 17	16.62	32	77.90	12 53	16.62	59	84.69	11 30	15.70	27	91.76	14 01	13.44	58	99.53	12 05
16.26	36	9.02	29 36	16.04	32	77.94	10 49	16.53	59	84.79	16 28	16.09	27	91.86	19 25	14.19	59	99.76	17 56
16.20	36	9.06	24 33	16.62	32	78.02	17 21	13.44	39 0	85.05	11 23	15.78	28	91.95	13 01	16.11	59	99.84	19 39
15.92	37	9.27	28 04	15.97	33	78.30	18 46	14.40	1	85.20	13 17	16.53	28	91.95	19 38	16.31	40 0	0.06	19 28
16.62	38	9.59	23 38	16.11	33	78.33	17 55	16.62	1	85.20	17 44	16.62	28	92.05	10 59	16.31	1	0.22	12 58
16.37	39	9.86	24 06	14.99	35	78.63	12 38	12.04	1	85.35	15 24	16.04	29	92.16	16 28	16.26	2	0.42	12 30
15.84	41	10.18	24 15	16.62	35	78.70	17 54	16.11	2	85.42	10 12	16.31	29	92.35	14 03	15.92	2	0.56	11 03
16.26	41	10.29	22 07	16.62	35	78.81	14 27	16.62	2	85.47	19 48	16.62	30	92.51	16 05	15.48	2	0.58	11 31
16.26	44	10.88	22 53	16.62	35	78.84	13 15	13.62	3	85.66	17 08	16.62	30	92.53	16 26	16.53	2	0.61	18 19
16.02	44	11.04	20 03	15.33	36	78.94	11 34	16.62	3	85.78	13 31	16.53	30	92.53	14 10	15.16	3	0.73	13 43
16.31	45	11.17	20 30	16.53	38	79.52	13 13	16.62	4	85.91	12 14	15.97	31	92.84	13 25	14.80	3	0.80	13 33
14.40	46	11.58	26 59	15.55	38	79.53	19 10	12.18	4	86.05	17 52	15.72	32	93.07	16 57	15.48	4	0.95	12 30
15.92	48	12.02	21 58	16.62	39	79.72	14 11	16.53	4	86.05	14 48	15.55	32	93.11	15 32	16.62	5	1.24	19 18
14.80	49	12.19	28 51	16.16	39	79.73	16 38	16.31	4	86.09	17 21	16.62	34	93.55	13 31	16.62	6	1.40	12 28
16.09	49	12.25	24 29	16.31	39	79.81	17 28	15.48	4	86.12	12 48	16.53	34	93.56	16 50	16.62	6	1.51	10 59
16.09	49	12.29	27 03	14.53	40	79.95	10 11	12.66	5	86.15	19 01	16.53	34	93.61	17 06	15.33	6	1.56	11 44
15.84	50	12.45	26 17	15.84	40	80.02	18 31	16.62	5	86.37	10 09	16.04	35	93.85	13 16	16.62	7	1.68	10 38
16.09	50	12.55	26 07	15.55	41	80.16	18 04	14.61	7	86.66	13 36	15.97	37	94.16	16 24	16.53	8	1.95	11 01
16.09	51	12.79	24 37	16.62	41	80.22	12 58	16.62	8	86.90	17 13	15.16	37	94.29	18 49	13.44	8	2.02	19 33
13.81	52	13.03	26 29	15.48	41	80.26	10 14	16.37:	8	86.94	17 27	15.97	37	94.35	15 21	16.31	9	2.20	11 43
16.53	53	13.21	27 17	16.62	41	80.31	17 21	16.31	9	87.16	13 37	16.33	38	94.46	12 54	13.38	9	2.24	18 03
16.62	54	13.52	23 42	16.37	42	80.52	12 42	16.37	9	87.37	10 35	15.97	39	94.79	15 20	16.37	10	2.38	16 26
15.33	54	13.56	27 47	16.31	42	80.53	17 47	16.37	10	87.48	17 58	15.97	39	94.84	19 07	16.62	11	2.65	11 23
16.20	55	13.82	23 22	16.62	43	80.67	12 49	15.48	11	87.66	11 53	13.44	41	95.25	11 40	13.44	12	3.02	16 12
16.62	55	13.86	28 11	16.53	44	80.89	11 24	16.53	11	87.76	17 48	16.62	41	95.25	16 00	14.40	12	3.06	17 21
16.62	57	14.13	21 27	16.62	44	80.91	15 08	16.62	12	88.07	17 41	16.31	41	95.31	15 53	15.84	12	3.11	13 06
14.61	59	14.64	26 36	14.40	44	80.93	16 56	11.64	12	88.08	13 30	16.62	42	95.56	16 06	16.16	13	3.22	12 41
16.53	41 0	14.95	27 35	16.62	44	80.98	18 44	14.61	13	88.35	13 55	16.37	44	95.93	19 23	15.84	14	3.40	15 54
16.62	0	15.02	22 59	15.92	46	81.51	17 03	16.62	13	88.36	16 36	16.29	44	96.09	10 10	13.09	14	3.46	18 56
13.44	0	15.11	28 48	16.62	46	81.60	14 47	16.22	14	88.38	17 52	13.10	45	96.22	17 25	16.20	14	3.59	12 46
16.16	1	15.20	29 50	16.62	47	81.69	16 26	15.48	14	88.47	17 16	15.70	46	96.55	18 07	16.16	15	3.66	14 59

25 prec. + 77 sec. — 0′ 45″

501—550				551—600				601—650				651—700				701—750			
Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int magn.	a	x	$y'-10'$	Int. magn.	a	x	$y-10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.20	40 15	3.87	17 25	15.23	40 45	11.35	19 07	13.81	38 35	78.80	3 10	16.62	38 58	84.54	7 54	15.84	39 20	89.88	2 34
15.92	16	3.89	17 36	16.62	47	11.65	14 27	16.53	35	78.86	5 28	13.81	58	84.60	1 36	14.99	20	89.99	7 28
15.99	16	4.00	10 53	13.62	48	11.96	15 14	15.33	36	78.94	6 31	15.78	59	84.83	7 46	15.92	21	90.27	4 03
16.62	16	4.11	17 21	15.97	48	12.04	13 01	16.20	37	79.22	9 37	15.70	39 0	84.89	0 32	16.62	21	90.27	5 20
15.64	17	4.19	13 01	15.86	49	12.19	17 55	15.92	37	79.24	8 33	15.97	0	84.95	6 15	16.62	21	90.32	5 32
16.26	17	4.21	17 36	16.62	49	12.26	13 03	16.62	37	79.29	6 23	13.62	0	84.95	4 18	16.62	23	90.69	6 49
15.99	17	4.26	14 05	16.62	50	12.42	16 16	16.16	37	79.37	6 13	16.53	1	85.13	8 39	14.69	23	90.69	9 35
16.62	18	4.38	13 47	16.62	50	12.56	15 24	16.31	38	79.51	6 55	16.62	1	85.19	6 00	16.62	24	90.98	8 51
16.31	18	4.40	13 55	16.33	52	13.06	15 16	15.33	38	79.53	2 06	16.11	1	85.21	5 50	16.62	24	90.98	6 45
12.88	18	4.40	12 25	15.64	52	13.07	18 34	15.72	39	79.67	8 41	16.62	1	85.31	4 14	16.62	24	90.99	7 51
16.62	18	4.50	16 59	16.04	53	13.18	13 09	16.62	39	79.77	1 13	15.33	2	85.47	4 04	16.62	25	91.16	5 26
13.26	18	4.51	18 09	15.78	53	13.26	12 42	16.62	39	79.79	5 31	14.61	2	85.56	6 45	16.62	25	91.26	4 31
16.16	19	4.83	14 46	16.62	54	13.38	15 39	16.20	39	79.81	4 02	16.37	4	85.88	6 25	16.62	26	91.38	4 43
16.11	20	5.01	10 39	16.53	54	13.47	11 11	16.37	40	80.04	3 16	15.70	4	85.97	1 56	16.16	27	91.80	5 04
16.37	21	5.21	13 57	15.86	54	13.54	17 23	16.62	41	80.18	2 57	16.37	4	86.01	7 21	16.62	28	91.94	1 35
16.22	21	5.29	15 10	16.62	55	13.65	11 25	16.62	41	80.33	3 28	15.97	5	86.32	3 16	16.11	28	91.99	7 55
16.22	21	5.30	15 18	12.81	55	13.73	13 55	16.62	41	80.36	5 49	16.62	6	86.39	5 43	16.33	29	92.25	9 37
16.53	22	5.43	17 40	16.62	56	13.96	12 14	16.26	42	80.41	2 08	16.62	6	86.41	9 03	16.62	29	92.34	3 34
13.10	23	5.68	10 45	16.37	56	13.99	16 50	16.16	42	80.56	0 36	16.09	6	86.58	4 40	12.81	30	92.53	9 36
16.62	23	5.84	15 49	16.62	57	14.22	16 38	16.16	43	80.71	2 00	16.62	6	86.60	7 58	14.19	30	92.56	9 45
16.62	24	5.87	19 08	16.62	57	14.26	12 40	16.33	43	80.73	1 24	16.37	7	86.69	7 18	16.37	32	92.88	8 36
15.78	25	6.24	19 46	16.53	57	14.28	17 14	16.62	43	80.84	1 09	16.33	7	86.70	1 36	15.33	32	93.11	3 15
15.33	25	6.27	10 34	16.09	58	14.45	10 30	14.99	43	80.84	2 09	15.33	7	86.76	7 24	16.31	33	93.15	5 53
15.33	25	6.27	13 10	15.97	59	14.65	19 44	16.62	44	81.03	4 44	15.99	8	86.96	8 54	12.94	33	93.21	8 41
16.62	26	6.47	10 32	15.97	59	14.76	16 52	15.33	46	81.43	6 28	14.80	8	87.00	8 58	16.22	33	93.34	0 59
15.64	27	6.65	13 36	15.06	41 0	14.87	10 23	16.62	46	81.43	8 22	15.33	10	87.42	5 39	16.62	34	93.49	7 54
15.33	27	6.86	13 09	15.09	0	14.89	14 17	15.13	46	81.52	0 12	16.11	10	87.50	7 54	16.62	34	93.51	0 57
16.62	27	6.87	16 03	16.62	0	15.09	16 03	15.92	47	81.78	1 38	15.58	10	87.52	7 38	16.62	36	93.94	7 35
16.62	28	7.00	19 24	16.37	1	15.22	16 20	16.16	48	81.89	8 53	15.16	10	87.60	0 38	15.33	36	93.95	7 16
16.62	30	7.47	11 15	15.33	3	15.84	18 52	15.78	48	81.93	6 43	16.16	13	88.18	7 22	16.62	36	93.96	3 34
16.62	31	7.80	17 05	16.31	4	15.99	14 58	16.16	48	81.95	9 01	16.62	13	88.25	6 21	16.62	36	93.99	9 00
15.33	32	7.99	13 28	16.62	38 26	76.41	3 22	16.04	50	82.39	7 29	15.99	13	88.30	4 59	16.62	37	94.14	7 12
16.33	32	8.02	18 24	15.84	27	76.72	7 52	16.31	50	82.43	3 40	15.64	13	88.35	4 43	16.62	37	94.18	1 33
13.62	32	8.09	14 42	16.09	27	76.77	6 43	15.48	51	82.69	2 44	15.92	14	88.48	1 11	16.53	37	94.31	7 26
16.62	34	8.56	15 20	16.62	27	76.84	6 53	16.62	51	82.80	0 38	16.62	14	88.49	2 11	16.11	38	94.58	2 33
16.53	34	8.57	14 29	16.53	28	77.02	7 00	14.99	51	82.83	8 47	16.62	14	88.60	2 05	16.31	38	94.59	6 59
10.73	34	8.57	19 07	16.62	28	77.05	3 42	16.09	52	82.91	4 48	16.53	15	88.70	2 59	16.11	39	94.71	7 56
14.99	35	8.87	19 06	15.99	28	77.12	3 23	16.62	52	82.94	6 37	15.64	15	88.78	8 21	15.58	39	94.83	6 19
15.81	36	8.98	10 23	13.10	29	77.35	0 20	14.99	52	83.07	2 28	16.53	15	88.79	6 13	15.33	40	94.96	9 33
16.37	36	8.98	12 50	16.62	30	77.55	6 01	13.62	52	83.11	8 12	16.16	15	88.84	2 00	13.03	40	94.96	5 59
16.04	36	9.05	19 30	16.62	30	77.58	6 33	16.53	53	83.22	9 48	16.62	16	89.06	2 28	16.62	41	95.13	8 06
16.62	36	9.06	18 28	16.37	31	77.63	5 45	16.26	53	83.24	5 02	16.62	17	89.16	8 35	16.37	41	95.28	8 50
16.62	37	9.34	12 58	16.62	31	77.76	1 23	16.20	54	83.50	8 20	14.19	18	89.39	0 52	16.16	42	95.42	4 42
16.04	38	9.59	18 20	14.99	31	77.77	7 18	15.64	54	83.52	2 06	15.84	18	89.39	2 01	15.33	42	95.46	0 23
15.48	38	9.61	14 32	15.84	32	77.87	0 38	16.62	54	83.59	1 34	14.19	18	89.48	6 33	16.09	43	95.75	4 24
13.27	39	9.71	11 29	16.62	33	78.13	1 40	16.62	55	83.80	2 55	16.26	18	89.61	9 19	15.92	43	95.76	8 31
16.53	40	9.95	12 44	15.33	34	78.52	9 25	16.62	56	83.90	9 29	16.22	19	89.69	7 13	8.31*	43	95.76	5 30
16.62	41	10.36	13 44	16.62	34	78.54	6 47	16.62	56	83.92	8 40	15.86	19	89.78	2 53	16.09	44	95.92	2 24
15.72	44	11.06	12 21	16.37	35	78.74	5 05	13.81	57	84.28	7 07	15.86	19	89.79	2 06	15.39	44	96.05	9 20
14.99	45	11.24	18 02	14.91	35	78.74	3 28	16.11	57	84.29	3 34	15.64	19	89.80	3 00	16.62	44	96.11	6 09

25 prec. + 77 sec. — 0′ 45″.

751—800				801—850				851—900				901—950				951—1000			
Int. magn.	α	*x*	*y*—10′	Int. magn.	α	*x*	*y*—10′	Int. magn.	α	*x*	*y*—10′	Int. magn.	α	*x*	*y*—10′	Int. magn.	α	*x*	*y*—10′
	m s	′	′ − ″		m s	′	′ − ″		m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″
16.62	39 45	96.35	3 10	16.62	40 16	3.89	9 15	16.62	40 48	11.91	−6 20	16.09	38 34	78.55	3 37	15.92	39 7	86.79	2 35
14.19	45	96.37	0 02	16.53	16	3.89	9 31	16.37	48	12.07	8 23	16.16	34	78.58	4 19	16.62	7	86.83	8 49
16.53	47	96.84	3 45	16.53	17	4.24	2 02	14.00	48	12.09	6 39	16.20	36	78.96	4 03	15.64	8	87.07	4 33
16.33	47	96.85	4 18	16.53	17	4.24	3 31	15.84	49	12.15	2 16	15.86	36	79.02	5 26	13.19	8	87.10	0 23
14.40	47	96.85	5 21	13.62	18	4.49	0 51	16.62	49	12.27	5 04	16.04	37	79.33	4 21	16.16	9	87.29	6 34
15.92	47	96.87	4 47	13.37	18	4.53	0 00	16.62	49	12.37	8 00	15.84	38	79.47	2 49	15.45	10	87.52	0 08
16.62	48	96.93	7 46	13.15	18	4.60	4 59	16.09	50	12.52	4 20	15.78	38	79.52	6 54	16.53	10	87.59	2 01
14.27	48	96.99	9 55	16.20	19	4.81	6 37	16.62	50	12.54	1 10	16.16	39	79.72	7 57	15.48	11	87.70	6 58
15.84	50	97.41	1 28	15.33	20	4.98	5 22	15.64	51	12.76	4 45	16.53	39	79.73	7 51	13.10	11	87.72	0 35
16.62	50	97.53	6 17	13.62	22	5.38	3 24	16.62	52	13.07	7 53	16.62	39	79.73	4 03	16.62	11	87.78	2 03
16.62	50	97.54	3 34	15.16	22	5.44	3 35	15.70	53	13.16	5 37	16.62	39	79.80	4 24	16.62	12	87.96	7 15
16.62	51	97.71	4 22	16.62	24	5.92	8 47	15.97	53	13.18	1 23	13.27	39	79.82	1 09	16.62	12	88.11	8 09
16.62	52	97.99	9 32	16.53	24	6.03	2 08	16.62	53	13.35	4 34	16.09	40	79.96	8 11	15.72	13	88.29	5 45
16.26	52	98.00	5 33	12.66	25	6.25	0 10	16.62	55	13.64	6 57	15.16	41	80.24	5 03	16.62	13	88.30	1 39
16.62	53	98.30	3 34	12.51	25	6.28	0 50	13.10	56	13.92	2 00	13.44	42	80.40	6 59	15.78	16	88.94	3 22
16.22	54	98.47	3 42	16.04	26	6.55	0 38	13.81	56	13.99	0 32	15.92	42	80.60	9 11	16.62	16	88.99	1 04
14.61	55	98.70	6 39	15.16	26	6.60	3 13	16.04	56	14.07	4 34	16.62	43	80.78	0 34	14.99	17	89.19	5 20
15.86	55	98.82	9 06	16.37	26	6.62	6 03	13.10	57	14.16	5 41	16.62	43	80.82	0 08	16.16	18	89.38	3 14
15.39	56	98.93	9 51	16.62	27	6.75	2 06	16.53	57	14.24	6 43	16.33	44	81.03	0 00	16.37	18	89.46	0 53
16.62	56	99.04	1 44	16.16	27	6.87	2 28	16.26	57	14.32	0 56	16.62	44	81.08	1 32	15.55	19	89.69	1 39
16.62	56	99.04	5 10	16.53	28	6.93	7 57	16.11	57	14.37	7 40	16.62	45	81.21	5 48	16.62	19	89.71	9 21
14.19	56	99.04	9 05	15.55	28	6.99	2 39	16.62	58	14.49	8 18	16.33	45	81.28	9 13	16.62	19	89.72	6 11
16.62	57	99.24	8 27	16.33	28	7.08	8 51	16.26	58	14.49	5 55	16.53	48	81.92	1 24	16.62	20	90.08	2 17
16.37	58	99.62	6 15	16.62	30	7.50	6 35	16.62	59	14.86	6 04	16.33	48	82.10	6 03	16.53	21	90.14	6 16
16.62	59	99.72	5 37	16.16	31	7.80	1 18	16.04	41 0	15.00	2 24	16.11	51	82.71	3 55	14.99	21	90.30	4 35
16.26	40 1	0.14	3 34	16.20	32	7.90	2 35	16.62	1	15.16	1 04	14.61	51	82.87	6 24	16.16	21	90.36	0 32
15.78	1	0.15	3 10	16.62	32	7.91	2 04	16.62	2	15.43	8 31	16.09	52	83.00	1 31	16.62	22	90.47	5 47
16.16	1	0.24	6 39	16.62	32	7.92	7 06	15.97	2	15.55	2 50	16.04	53	83.34	4 00	15.64	25	91.16	9 15
16.37	1	0.24	0 12	13.44	32	8.00	7 46	15.39	2	15.62	9 38	13.88	54	83.47	3 18	16.09	25	91.32	9 00
16.37	1	0.28	0 37	16.37	32	8.02	8 02	15.92	3	15.77	1 04	15.64	54	83.49	4 58	16.62	25	91.37	0 04
15.92	1	0.36	3 14	15.33	33	8.29	5 13	15.72	3	15.86	9 07	16.62	54	83.52	5 21	15.92	26	91.51	5 53
14.80	3	0.64	0 34	16.62	34	8.38	2 39	16.09	4	15.93	−0 42	16.31	55	83.71	4 57	15.33	27	91.65	4 09
15.58	3	0.71	5 34	16.33	34	8.41	7 03	15.72	38 25	76.34	+4 54	15.33	55	83.75	4 11	16.33	27	91.66	1 15
13.44	4	0.88	3 30	15.52	35	8.82	9 39	16.26	26	76.44	2 47	16.62	56	84.11	3 23	16.04	27	91.71	7 19
16.09	4	0.92	6 17	16.62	35	8.82	2 32	14.99	27	76.63	2 00	15.42	57	84.22	2 07	16.29	27	91.73	0 16
16.62	7	1.83	1 56	16.04	36	9.10	5 39	15.39	27	76.75	0 47	15.48	57	84.33	8 29	16.33	27	91.80	0 10
16.33	7	1.84	1 28	15.92	38	9.49	3 34	16.62	27	76.84	8 36	16.62	59	84.65	6 15	16.62	28	91.90	3 58
16.62	7	1.87	2 08	14.61	40	9.98	7 02	16.62	27	76.87	7 51	15.84	59	84.65	5 19	16.16	29	92.29	0 14
13.27	8	2.00	7 42	16.62	41	10.25	3 32	16.62	28	76.93	8 52	16.62	59	84.71	0 38	15.70	29	92.33	6 04
14.91	8	2.03	3 26	14.80	42	10.57	4 00	16.22	28	77.02	2 07	15.72	39 1	85.22	5 25	16.31	29	92.36	3 26
16.16	10	2.43	9 25	16.62	44	10.88	9 56	16.20	29	77.14	3 28	15.26	1	85.35	4 47	16.62	30	92.62	2 43
16.16	10	2.52	6 11	16.62	44	10.98	6 07	15.33	30	77.42	0 16	16.09	2	85.51	4 05	16.62	31	92.82	2 32
14.80	11	2.63	7 22	16.04	44	11.02	4 07	14.00	30	77.57	2 33	16.62	3	85.79	2 32	16.62	32	92.92	5 45
16.62	12	3.00	8 13	15.78	44	11.08	1 24	15.97	31	77.62	7 02	15.84	4	85.91	3 35	15.78	33	93.24	5 01
15.55	13	3.14	4 57	16.24	45	11.14	9 43	16.62	31	77.86	3 59	16.62	4	86.01	8 01	16.62	34	93.53	2 03
15.33	13	3.32	7 22	15.26	46	11.43	9 43	14.00	32	78.03	4 20	16.62	5	86.22	6 57	16.62	35	93.67	4 15
16.37	14	3.54	9 31	15.86	46	11.44	0 30	16.62	33	78.13	0 49	16.62	5	86.23	7 31	16.62	35	93.75	4 37
16.62	14	3.60	4 51	16.09	46	11.49	7 32	16.16	34	78.40	4 30	16.62	6	86.49	7 51	14.80	35	93.81	8 24
15.92	15	3.71	3 52	16.62	46	11.57	3 38	15.42	34	78.43	3 43	13.15	6	86.54	0 12	16.26	36	94.07	4 37
16.37	15	3.78	7 07	15.97	47	11.64	1 42	16.31	34	78.50	+9 43	16.37	7	86.72	8 12	14.99	36	94.10	8 33

25 prec. + 77 sec. — 0′ 44″.

17^h **Area 109.** $+0^{\circ}$

1001—1030				1031—1060				1061—1090				1091—1120				1121—1144			
Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$	Int. magn.	a	x	$y-10'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.78	39 38	94.39	4 43	16.62	39 53	98.23	5 29	15.42	40 10	2.52	3 35	16.62	40 27	6.69	8 28	16.09	40 46	11.58	6 58
14.61	38	94.42	1 41	16.37	53	98.23	4 13	16.62	10	2.60	0 59	12.79	28	6.89	1 33	16.22	47	11.82	7 18
16.62	38	94.48	5 02	15.64	53	98.31	5 52	16.62	11	2.70	1 06	14.61	28	7.12	1 20	16.37	48	12.05	4 03
14.00	39	94.75	3 27	16.62	54	98.44	4 24	16.62	11	2.77	0 18	14.00	29	7.26	3 57	16.22	48	12.08	4 53
16.53	39	94.84	0 02	15.39	54	98.47	2 17	16.09	12	3.01	2 31	15.86	32	7.89	5 03	15.64	49	12.22	2 34
15.64	41	95.14	4 26	16.53	54	98.57	4 23	13.62 :	13	3.13	6 19	15.92	33	8.19	5 14	15.86	50	12.44	5 47
16.04	41	95.25	6 58	16.11	55	98.82	5 49	15.84	13	3.25	7 01	16.62	33	8.29	8 03	16.20	50	12.57	4 47
16.37	42	95.55	2 53	15.84	56	98.88	6 19	16.62	13	3.29	5 29	16.37	33	8.37	1 42	16.09	51	12.67	9 54
16.62	43	95.73	2 26	16.37	56	99.00	1 07	16.37	14	3.38	5 01	16.31	34	8.44	8 47	16.20	52	12.99	8 04
15.64	43	95.74	0 56	16.62	56	99.01	8 03	14.40	14	3.56	7 14	15.48	35	8.76	0 33	16.62	53	13.29	1 23
16.62	43	95.81	7 49	16.62	57	99.32	6 19	16.31	14	3.60	3 22	12.30	36	8.93	0 41	12.64	53	13.29	8 55
16.09	43	95.85	7 41	16.62	58	99.45	8 09	16.33	15	3.73	2 01	16.16	36	9.03	5 33	16.09	53	13.36	0 43
15.97	44	95.97	3 53	16.04	58	99.45	8 46	16.62	15	3.74	8 58	15.86	36	9.11	1 41	16.62	54	13.39	6 49
16.53	44	96.07	4 43	16.62	58	99.47	7 03	16.33	16	3.95	9 40	16.62	38	9.52	7 54	16.62	54	13.44	6 20
15.33	44	96.11	5 07	14.19	59	99.65	6 02	15.33	16	4.07	2 57	16.53	38	9.52	8 53	15.64	54	13.54	6 01
16.62	45	96.20	0 56	15.97	59	99.73	5 13	15.97	18	4.57	8 55	16.31	39	9.68	3 59	15.86	55	13.66	0 33
16.53	45	96.21	1 13	11.98	59	99.77	3 51	15.92	19	4.79	7 31	16.22	39	9.84	8 31	16.62	56	14.11	9 48
16.20	45	96.32	4 43	16.16	40 0	0.02	6 21	15.86	19	4.80	1 16	16.37	39	9.87	9 11	16.26	57	14.25	7 23
16.33	46	96.51	6 08	14.80	0	0.04	4 43	16.62	20	4.90	3 20	16.62	40	9.89	9 40	16.37	57	14.30	8 59
16.62	47	96.81	3 12	16.62	1	0.23	3 47	15.92	21	5.27	8 11	16.16	40	9.97	8 57	16.31	57	14.35	8 51
16.22	47	96.82	3 31	15.99	1	0.36	1 29	12.69	22	5.40	4 48	14.80	41	10.28	6 43	16.62	59	14.76	1 09
16.31	47	96.85	5 24	15.92	2	0.46	1 15	9.30*	22	5.59	6 48	15.78	41	10.33	2 37	16.62	59	14.83	5 59
13.15	48	97.00	9 37	16.20	3	0.63	7 02	16.02	23	5.62	0 11	16.53	42	10.49	1 03	16.62	41 3	15.68	9 13
12.81	49	97.36	0 14	12.56	3	0.79	2 30	16.04	24	5.90	3 51	15.16	43	10.67	1 54	16.62	3	15.76	2 36
16.09	50	97.62	4 15	16.62	4	1.05	9 11	16.20	24	5.90	1 22	15.16	43	10.76	9 40				
15.99	51	97.71	5 15	16.62	7	1.79	1 12	13.10	24	5.94	7 06	16.62	44	11.06	4 27				
13.27	51	97.72	9 17	16.62	7	1.82	1 01	16.62	24	5.98	1 15	16.37	45	11.27	8 22				
16.20	52	98.10	2 40	16.62	8	1.93	4 09	15.92	24	6.00	6 13	15.33	45	11.27	9 38				
16.62	52	98.12	9 03	15.92	9	2.28	7 11	13.62	25	6.35	8 45	13.09	45	11.30	2 49				
16.62	53	98.20	6 24	12.51	9	2.37	1 39	16.22	26	6.55	5 04	16.62	46	11.56	3 51				

25 prec. + 77 sec. — 0' 43".

18^h Area 110. Centre for 1900: 18^h 37^m 0° 0'. — 0°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$	Int. magn.	a	x	$y+0'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
14.56	35 14	73.44	26 50	13.97	36 56	99.10	24 51	14.85	37 43	10.85	23 53	16.08	37 51	12.68	21 04	16.42	38 9	17.29	21 00
15.94	17	74.36	22 02	15.43	37 0	0.01	21 31	14.71	45	11.13	23 58	15.23	53	13.33	27 18	15.67	10	17.51	23 42
15.00	45	81.32	27 08	15.52	5	1.24	28 45	16.42	45	11.18	20 49	16.08	54	13.62	20 56	13.26	11	17.74	28 37
16.33	49	82.30	28 37	15.97	15	3.70	22 00	15.97	45	11.18	27 22	16.42	57	14.22	26 43	13.37	13	18.24	25 39
12.05	59	84.78	21 50	16.02	16	4.11	23 24	16.11	46	11.56	20 34	16.42	58	14.44	26 56	15.29	14	18.42	29 46
15.58	36 4	85.95	22 25	10.11	17	4.18	24 52	16.42	47	11.84	20 49	16.42	38 3	15.63	27 52	16.42	14	18.58	28 31
13.67	14	88.37	25 53	16.17	19	4.66	24 53	16.42	48	11.93	29 22	12.46	4	15.94	22 33	12.53	15	18.64	26 58
14.12	15	88.67	22 14	15.29	21	5.36	27 24	13.82	48	12.00	29 44	16.17	6	16.51	28 47	13.37	15	18.77	23 59
13.67	27	91.75	28 45	15.64	24	5.96	22 00	13.52	48	12.01	29 58	16.17	7	16.84	25 52	15.76	15	18.81	20 16
15.38	55	98.72	21 06	14.85	40	10.04	26 31	15.38	50	12.52	25 55	16.42	9	17.27	23 57	12.61	16	18.93	27 58

25 prec. + 77 sec. + 1' 22".

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.42	38 18	19.49	20 51	16.42	39 5	31.33	22 14	16.42	37 39	9.70	18 21	15.97	38 52	28.00	15 25	16.42	37 7	1.71	9 17
16.17	20	19.93	24 14	15.88	6	31.38	21 12	15.06	40	9.96	11 18	16.11	52	28.01	11 51	16.42	8	1.99	9 36
16.42	20	19.99	20 24	14.56	6	31.55	23 00	16.42	40	10.07	15 53	13.67	53	28.20	15 45	13.37	11	2.76	0 42
16.33	22	20.47	26 09	16.33	7	31.73	26 50	16.33	43	10.72	13 08	15.79	54	28.40	16 19	16.42	14	3.41	3 44
16.33	24	21.00	27 28	15.38	7	31.73	28 25	13.82	46	11.57	13 16	12.10	56	28.93	19 16	16.17	19	4.64	5 02
16.42	25	21.19	27 43	15.00	7	31.75	29 54	13.52	47	11.66	12 53	15.43	56	29.08	11 37	16.42	19	4.71	9 51
16.42	25	21.21	21 16	15.43	9	32.26	26 15	14.85	49	12.16	14 47	15.14	57	29.33	14 35	15.67	21	5.29	8 54
16.42	26	21.39	21 43	16.42	11	32.66	24 46	16.33	49	12.34	17 30	16.42	58	29.43	11 05	16.33	22	5.49	6 59
15.94	26	21.39	28 25	16.42	35 15	73.87	17 31	16.02	51	12.86	14 36	16.42	58	29.53	12 40	16.11	24	6.08	3 23
14.42	28	22.09	29 47	16.42	19	74.79	10 34	15.14	55	13.70	19 55	15.35	59	29.77	17 43	15.82	26	6.58	0 30
16.42	30	22.49	26 47	16.42	23	75.64	18 27	14.80	55	13.78	15 45	16.42	39 0	30.08	14 03	15.58	28	6.95	2 14
16.33	30	22.62	26 36	16.02	23	75.76	12 14	15.14	55	13.80	17 53	15.67	0	30.12	17 39	15.00	28	6.98	2 22
16.42	31	22.70	20 43	11.26	23	75.79	16 54	12.81	56	13.94	11 31	16.42	2	30.38	14 24	16.42	30	7.47	1 47
13.16	33	23.37	25 19	16.33	28	76.93	14 25	13.16	59	14.66	18 52	16.33	3	30.84	18 17	16.17	40	10.10	8 11
12.27	35	23.69	25 44	15.00	28	77.02	16 50	15.79	38 1	15.36	13 02	14.71	5	31.23	13 28	16.42	41	10.22	8 54
16.33	35	23.76	26 47	15.94	28	77.08	17 41	16.33	2	15.56	17 57	14.91	5	31.24	12 35	12.58	42	10.38	0 44
9.3[1]	35	23.80	20 08	16.42	30	77.39	10 19	16.42	3	15.81	14 18	13.22	5	31.28	10 29	15.29	45	11.20	9 38
16.42	36	23.90	25 52	16.42	30	77.50	18 11	12.76	8	16.94	16 42	14.56	6	31.45	10 39	11.13	45	11.27	4 50
15.14	36	24.01	28 04	15.00	32	77.93	11 41	16.42	10	17.44	19 01	15.38	7	31.67	19 12	14.56	47	11.77	8 36
16.33	37	24.17	26 52	15.00	34	78.45	16 23	15.14	11	17.64	15 45	15.00	11	32.76	17 27	16.42	47	11.79	9 04
16.42	37	24.18	25 11	13.97	34	78.55	11 25	16.17	11	17.73	19 42	16.11	11	32.83	16 08	15.23	48	11.89	8 12
16.42	38	24.39	28 53	12.32	46	81.48	13 32	15.82	12	17.89	12 32	16.42	11	32.86	13 33	15.06	51	12.85	0 18
15.41	39	24.67	20 13	15.64	48	81.91	11 29	15.29	12	17.94	12 01	16.42	35 16	74.05	7 38	16.42	52	13.04	3 29
16.11?	39	24.69	25 00	16.42	54	83.47	16 05	14.85	12	18.12	17 39	14.85	23	75.66	7 46	15.91	55	13.68	9 53
15.94	40	24.89	28 33	13.22	54	83.58	10 47	15.73	13	18.22	16 34	13.82	27	76.70	2 06	15.94	55	13.72	9 46
16.42	40	24.97	29 34	16.33	59	84.84	19 27	15.20	13	18.36	14 41	16.42	33	78.18	3 42	14.42	56	13.95	5 20
14.85	41	25.32	20 51	16.17	36 4	85.92	19 29	15.58	16	19.04	17 18	16.33	33	78.31	9 20	16.02	56	14.05	9 05
15.52	44	25.95	28 50	12.94	4	86.07	19 38	16.42	19	19.86	16 28	16.42	34	78.62	7 30	16.42	58	14.38	3 55
15.29	49	27.17	25 08	13.22	5	86.31	15 41	15.94	22	20.61	16 36	15.00	38	79.55	3 42	16.42	58	14.54	4 13
15.14	49	27.27	22 43	13.22	6	86.62	11 45	15.64	23	20.71	11 41	14.56	44	81.02	3 10	14.42	59	14.83	9 33
16.33	51	27.68	29 34	10.43	9	87.26	18 13	15.14	26	21.43	17 21	16.42	45	81.21	8 50	15.88	38 0	15.07	9 14
16.42	51	27.82	24 48	10.81	15	88.72	15 06	16.17	26	21.48	14 49	12.80	45	81.24	3 36	15.35	1	15.25	5 12
14.85	52	27.95	28 29	16.11	19	89.79	19 46	16.42	27	21.82	10 26	13.37	45	81.32	4 43	16.42	5	16.20	8 32
14.85	53	28.30	24 48	15.06	27	91.75	13 47	15.97	29	22.20	16 21	16.42	52	82.89	9 01	16.42	5	16.23	9 28
15.79	54	28.47	29 22	11.38	29	92.24	10 50	13.82	34	23.43	19 54	16.33	52	82.91	8 53	16.42	5	16.26	8 48
15.29	54	28.47	27 26	15.64	49	97.31	13 33	12.92	34	23.54	17 59	16.42	54	83.41	7 27	16.33	8	17.04	9 55
16.17	54	28.50	23 49	11.60	56	98.92	18 04	14.56	34	23.55	18 13	14.97	36 10	87.59	0 05	15.52	12	17.96	0 30
15.94	54	28.54	27 46	15.43	59	99.63	12 58	16.11	35	23.66	11 37	15.64	12	88.04	8 29	16.42	12	18.01	7 21
16.42	56	28.90	20 37	16.33	37 0	0.10	14 46	16.42	36	23.88	12 17	14.42	12	88.09	5 23	11.71	12	18.10	0 42
16.42	56	29.10	21 50	13.82	5	1.13	10 48	15.58	39	24.81	19 11	16.42	21	90.14	9 45	11.88	14	18.62	7 10
16.42	57	29.16	20 07	16.33	8	1.89	16 19	16.11	40	25.10	17 22	15.97	22	90.53	4 45	15.49	15	18.81	1 09
16.33	57	29.19	22 49	16.33	10	2.58	17 28	15.43	41	25.29	14 08	15.23	23	90.66	8 14	13.22	16	18.94	9 25
15.58	59	29.67	20 58	14.42	14	3.55	18 16	16.42	42	25.47	15 21	13.22	27	91.66	1 15	14.12	16	19.11	5 48
16.42	39 0	29.96	28 23	12.31	22	5.46	10 36	16.42	44	25.91	16 52	15.23	29	92.30	6 38	16.42	17	19.23	6 32
16.42	0	30.03	21 19	13.22	22	5.54	12 13	16.11	44	26.06	12 29	16.42	29	92.36	8 20	16.42	22	20.42	7 01
16.42	1	30.13	23 50	15.97	30	7.57	14 17	8.6[2]	46	26.39	19 23	12.81	44	95.94	0 22	16.42	22	20.50	8 03
16.17	1	30.19	21 29	16.17	31	7.74	19 46	15.82	47	26.78	11 48	16.42	45	96.37	8 39	14.56	22	20.50	1 20
16.42	1	30.34	22 10	13.22	33	8.37	18 51	15.82	48	26.91	18 51	11.00	53	98.30	2 24	16.42	23	20.82	6 42
16.33	4	30.88	26 44	15.91	37	9.26	19 52	15.64	49	27.29	18 56	12.28	59	99.78	9 18	14.12	24	20.95	1 53
15.64	5	31.26	24 32	15.58	38	9.57	18 21	16.02	49	27.31	12 23	16.33	37 1	0.29	2 56	15.09	24	21.02	4 54

25 prec. + 77 sec. + 1′ 22″.

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[1] Magn. uncertain, extrapolated. A.G.C. vis. magn. = 9·0.

[2] Magn. from A.G.C. Zone $+ 0^{\mathrm{m}}\!\cdot\!5$.

301—350				351—400				401—450				451—500				501—538			
Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′	Int. magn.	α	x	y+0′
	m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″
16.17	38 24	21.12	−7 10	15.94	37 9	2.18	7 37	16.33	35 47	81.79	19 07	15.00	38 45	26.29	16 42	16.17	38 3	15.65	22 12
15.67	25	21.14	2 44	11.44	10	2.52	5 24	14.12	48	81.92	13 04	15.67	57	29.29	18 37	13.97	4	15.92	21 47
16.42	26	21.42	7 21	10.02*	10	2.62	3 33	16.42	36 0	84.95	17 08	13.82	39 0	29.97	17 38	11.67	5	16.33	23 49
15.97	26	21.62	8 22	15.97	11	2.72	7 19	15.35	2	85.50	19 54	16.42	5	31.28	19 31	14.85	5	16.35	24 11
12.85	30	22.44	6 45	12.53	12	2.93	2 38	16.33	10	87.45	10 28	16.42	8	32.04	11 56	14.94	11	17.68	27 35
16.42	31	22.71	7 56	16.42	20	4.94	8 03	16.11	15	88.67	17 27	14.42	10	32.57	16 21	11.40	13	18.14	24 32
15.58	32	23.09	8 17	16.42	27	6.87	9 19	15.97	24	91.02	12 37	16.08	11	32.85	18 27	13.07	13	18.17	23 31
15.43	35	23.87	3 07	15.00	29	7.17	9 13	12.86	25	91.29	10 58	15.29	35 19	74.65	29 52	16.17	15	18.65	27 52
15.35	36	24.01	8 16	13.07	33	8.25	0 20	11.21	29	92.33	15 19	15.58	21	75.13	20 39	14.56	18	19.38	29 37
13.67	40	24.93	1 26	15.35	33	8.33	3 21	16.42	30	92.62	15 09	12.83	21	75.35	20 11	16.02	19	19.77	22 57
16.42	40	25.00	6 21	12.30	38	9.44	2 14	16.42	38	94.42	11 32	15.23	28	77.04	29 24	14 85	20	20.02	29 14
16.42	42	25.39	5 52	16.17	41	10.24	0 36	11.04	43	95.85	17 29	15.09	31	77.71	25 43	16.02	28	21.99	22 41
15.52	43	25.78	2 12	14.12	43	10.80	9 16	15.97	46	96.44	10 37	16.42	45	81.19	22 52	15.88	32	22.92	25 22
15.79	44	25.96	9 06	14.12	45	11.37	2 03	16.42	56	98.90	12 44	16.42	50	82.61	26 59	13.97	32	23.01	23 56
14.85	45	26.13	5 10	15.14	50	12.56	1 29	15.73	56	99.08	10 25	15.52	56	84.08	25 45	16.02	34	23.39	22 14
15.20	45	26.21	4 54	16.33	53	13.19	8 17	15.94	59	99.81	12 27	16.42	56	84.10	20 12	13.07	34	23.50	27 00
16.08	47	26.69	8 59	16.33	59	14.83	1 01	16.42	37 9	2.16	13 04	11.18	36 0	85.06	22 37	16.42	34	23.61	27 27
16.08	48	26.98	9 18	15.43	38 6	16.45	2 14	16.11	9	2.31	13 02	16.42	2	85.58	26 08	16.42	38	24.55	29 08
12.70	48	26.98	3 59	15.97	13	18.26	2 52	16.11	10	2.39	15 11	15.79	4	85.99	24 48	15.06	39	24.81	29 41
16.42	48	27.11	1 01	16.42	14	18.57	2 06	16.11	13	3.24	12 48	15.82	11	87.74	20 17	16.42	39	24.83	20 43
16.42	52	28.09	2 43	15.00	18	19.47	9 14	15.73	15	3.86	18 13	8.1[1]	21	90.14	28 17	11.12	39	24.84	26 07
16.42	53	28.19	4 30	14.85	23	20.74	6 24	13.37	17	4.19	17 43	15.52	26	91.53	22 44	15.73	40	25.02	24 31
16.17	55	28.69	3 43	15.43	23	20.85	2 54	12.04	27	6.72	15 22	16.33	29	92.25	26 22	13.67	44	26.00	25 00
16.11	56	29.07	9 22	16.17	25	21.14	0 33	14.12	29	7.23	15 15	15.49	33	93.32	20 40	14.42	45	26.33	22 18
15.14	58	29.38	6 04	15.29	25	21.23	5 23	15.88	31	7.68	16 24	13.67	34	93.62	28 10	13.22	48	26.93	20 02
16.08	59	29.65	2 40	14.42	27	21.74	9 19	16.42	32	7.90	15 42	16.42	35	93.74	20 41	16.42	50	27.41	25 00
16.11	59	29.71	2 47	15.58	29	22.23	7 15	16.42	41	10.16	14 31	14.85	37	94.16	21 00	14.27	50	27.56	29 05
16.42	39 1	30.31	0 56	16.33	33	23.24	0 30	13.97	46	11.56	14 28	14.56	39	94.71	22 34	16.17	52	27.96	25 30
15.09	3	30.71	6 57	16.33	34	23.61	8 31	12.52	48	11.95	16 13	16.42	39	94.75	21 54	11.71	53	28.18	20 54
14.71	3	30.78	7 30	15.00	38	24.51	1 42	15.00	55	13.63	17 08	14.27	41	95.17	21 46	16.33	53	28.19	26 38
16.42	9	32.22	7 52	16.42	39	24.76	0 44	16.42	57	14.31	17 12	15.58	47	96.73	24 38	15.49	54	28.54	24 39
15.97	10	32.38	6 37	16.42	39	24.80	0 28	15.49	58	14.48	14 11	15.29	47	96.80	26 21	16.42	56	29.07	26 26
16.42	10	32.55	−7 36	16.42	50	27.51	1 34	16.42	38 0	15.08	17 01	12.29	49	97.29	25 07	15.35	58	29.42	22 41
15.00	35 17	74.17	+2 02	16.02	51	27.65	9 07	15.58	1	15.33	14 28	15.43	53	98.20	22 56	14.85	39 1	30.27	26 23
11.88	35	78.64	1 41	16.42	53	28.31	6 46	13.07	14	18.56	17 03	15.52	37 5	1.26	28 53	14.91	1	30.29	25 42
16.42	43	80.82	0 46	16.42	55	28.68	4 58	16.11	16	18.93	16 43	15.14	13	3.21	25 01	16.42	5	31.18	21 28
13.82	58	84.51	1 40	16.42	55	28.71	4 08	15.38	21	20.15	15 22	14.94	19	4.80	21 30	14.80	5	31.19	25 17
12.48	36 13	88.30	7 25	16.33	56	28.95	3 29	16.17	21	20.25	15 55	15.67	20	5.05	27 44	16.42	11	31.85	26 22
14.27	20	89.98	2 48	12.20	57	29.20	4 31	16.42	21	20.34	18 41	13.22	26	6.60	22 31				
9.92*	22	90.39	9 43	15.14	58	29.60	3 48	15.38	23	20.71	10 28	13.67	31	7.64	23 22				
15.64	28	91.92	3 27	16.17	59	29.67	6 24	11.40	27	21.70	13 43	15.43	34	8.56	29 59				
14.56	39	94.76	9 39	16.42	39 0	30.11	0 08	15.58	27	21.79	16 02	16.33	38	9.50	23 43				
16.33	43	95.87	9 05	11.22	3	30.69	5 02	15.56	27	21.79	17 28	16.33	41	10.26	21 04				
12.83	45	96.25	8 26	15.58	4	30.98	3 04	16.08	30	22.61	17 38	15.97	49	12.20	22 18				
16.42	48	96.95	7 22	14.80	7	31.70	9 06	16.42	31	22.87	18 27	9.5[2]	52	13.02	29 01				
15.49	48	97.05	4 17	15.29	7	31.79	4 52	16.02	32	23.06	13 35	14.12	53	13.22	25 16				
15.12	37 0	0.01	0 24	14.42	9	32.17	5 45	13.52	36	23.95	13 35	14.85	56	14.05	25 04				
16.17	2	0.54	7 58	14.85	11	32.68	6 06	16.42	43	25.74	10 38	16.17	58	14.53	27 07				
15.38	6	1.60	4 29	15.29	35 29	77.24	15 44	16.33	43	25.86	15 41	11.77	38 1	15.30	22 07				
14.94	9	2.16	+2 14	16.42	31	77.63	13 24	11.77	45	26.19	16 59	16.11	1	15.30	28 18				

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[1] Magn. from A.G.C. zone $+ 0^{m}\cdot 5$.

[2] Magnitude uncertain, extrapolated.

25 prec. + 77 sec. + 1′ 22″

Area 111. Centre for 1900: $19^h\ 33^m + 0°\ 10'$.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.50	31 16	74.02	13 49	14.48	31 30	77.59	17 33	15.63	31 47	81.87	13 29	15.01	32 6	86.43	14 50	16.12	32 21	90.31	11 01
15.98	16	74.11	15 18	14.11	30	77.61	15 59	15.95	48	81.93	14 18	16.48	6	86.51	13 57	15.63	22	90.42	15 23
15.70	18	74.41	12 12	16.48	31	77.64	11 03	13.71	48	81.97	19 22	16.39	7	86.64	15 30	15.53	22	90.52	12 41
16.48	18	74.61	18 00	16.48	31	77.68	12 32	15.95	49	82.21	14 44	15.26	7	86.79	16 28	15.19	23	90.73	16 45
16.05	19	74.62	11 51	10.92	31	77.74	16 54	16.23	49	82.34	14 42	16.48	7	86.81	14 14	15.88 :	23	90.82	15 48
15.77	19	74.76	11 09	15.60	31	77.82	12 32	16.48	49	82.35	13 26	16.39	8	86.94	14 01	16.48	24	90.91	11 42
15.63	19	74.78	13 01	14.55	32	77.88	10 16	13.29	50	82.49	18 07	16.48	8	86.97	12 27	15.63	24	90.91	13 41
16.39	20	74.92	16 06	15.36	32	77.89	13 30	15.77	50	82.53	18 01	14.84	8	87.01	12 59	16.12	24	90.92	19 53
16.12	20	75.02	15 03	16.48	32	78.00	13 53	16.39	50	82.58	16 35	16.48	8	87.02	18 03	16.39	24	91.00	18 31
15.70	20	75.10	11 34	15.95	33	78.14	16 00	16.48	51	82.66	16 57	16.48	8	87.12	15 02	16.12	25	91.16	14 06
16.23	21	75.17	13 38	16.48	33	78.19	15 40	15.88	51	82.75	18 21	15.88	9	87.17	10 32	16.23	25	91.19	18 20
15.70	21	75.20	15 21	15.43	34	78.39	12 22	15.19	51	82.82	15 30	15.98	9	87.31	17 22	15.88	25	91.22	12 41
16.48	21	75.25	12 12	16.16	34	78.40	12 11	15.01	52	82.97	13 16	13.91	9	87.35	11 25	15.08	25	91.27	18 11
15.77	21	75.27	11 32	15.60	34	78.40	16 50	16.48	55	83.65	17 31	15.81	10	87.42	16 51	16.39	25	91.33	14 10
16.48	21	75.29	19 13	16.23	34	78.49	16 42	16.23	55	83.83	13 12	15.95	10	87.45	15 43	14.94	25	91.33	19 29
15.19	21	75.31	15 43	16.16	35	78.73	19 32	16.48	56	83.91	15 11	16.12	10	87.48	16 08	15.53	26	91.60	13 11
15.70	22	75.57	19 41	15.98	35	78.74	12 05	12.84	56	84.04	19 45	16.12	10	87.62	19 57	15.95	27	91.68	14 40
15.98	22	75.58	16 12	16.48	35	78.78	14 56	16.39	57	84.19	11 27	15.36	11	87.64	17 51	15.46	27	91.74	11 00
15.53	23	75.64	14 03	16.12	35	78.79	11 27	15.63	57	84.22	11 51	16.05	12	87.93	16 02	15.88	27	91.79	19 51
15.77	23	75.65	19 47	16.39	36	78.98	16 23	15.53	57	84.23	16 11	15.98	12	88.00	11 52	16.39	27	91.84	10 06
15.95	23	75.70	14 01	15.77	36	78.99	18 14	15.81	57	84.32	12 16	15.81	12	88.08	14 39	15.70	28	91.88	14 53
16.16	23	75.71	18 59	15.98	36	79.02	18 37	16.23	57	84.33	14 21	15.88	13	88.14	18 51	16.12	28	91.96	15 53
15.26	23	75.73	18 37	15.53	37	79.28	12 33	16.39	57	84.33	13 57	16.23	13	88.28	19 50	16.48	28	92.03	10 55
15.81	23	75.78	11 12	15.95	38	79.39	10 12	15.01	57	84.37	15 31	15.77	13	88.32	12 47	16.23	28	92.11	13 32
15.88	23	75.78	10 12	16.48	38	79.42	17 31	15.95	58	84.57	16 20	15.77	13	88.32	19 28	16.23	29	92.21	13 59
15.77	23	75.81	15 29	15.53	38	79.45	10 25	16.48	59	84.63	11 22	16.48	13	88.35	13 41	15.88	29	92.23	11 42
15.43	23	75.81	17 21	15.60	38	79.45	16 18	15.95	59	84.71	11 00	15.53	14	88.43	15 56	15.88	29	92.32	16 02
16.16	24	75.90	19 21	15.19	38	79.53	13 32	16.16	59	84.75	12 25	15.95	14	88.44	18 12	16.23	30	92.55	14 33
16.48	24	76.00	19 33	15.19	39	79.71	12 15	13.72	59	84.79	13 39	16.12	14	88.45	19 19	14.48	30	92.61	19 19
15.46	24	76.10	12 30	15.70	40	79.98	13 49	14.29	32 0	84.92	15 10	15.81	14	88.56	12 28	16.39	31	92.78	18 30
15.95	24	76.10	18 49	16.39	41	80.15	14 13	13.91	0	84.92	18 21	15.88	14	88.60	14 32	16.48	31	92.87	16 00
15.70	25	76.17	13 09	15.81	41	80.36	19 28	16.48	0	84.92	18 50	16.39	14	88.60	16 30	16.48	32	92.89	14 10
15.01	25	76.20	15 15	13.91	43	80.68	16 08	15.77	0	85.05	15 11	16.12	14	88.61	13 40	16.48	32	92.97	16 15
15.60	25	76.31	18 34	15.12	43	80.72	19 06	16.48	0	85.12	18 49	16.23	15	88.79	16 20	16.48	32	93.01	10 29
16.16	26	76.40	15 24	15.19	44	80.97	18 40	16.16	1	85.17	19 11	15.95	16	88.88	18 55	15.81	32	93.01	11 22
14.29	26	76.42	13 15	13.06	44	80.98	17 45	16.16	1	85.25	14 32	15.95	16	88.92	16 29	16.16	33	93.19	15 16
16.28	26	76.57	12 14	16.48	45	81.17	19 47	15.19	1	85.26	19 28	15.12	16	89.02	14 35	16.23	33	93.24	19 20
12.84	26	76.60	11 47	15.77	45	81.23	11 32	13.91	1	85.36	11 18	15.88	16	89.03	14 20	16.39	33	93.31	19 49
16.48	27	76.63	13 17	16.12	45	81.26	12 04	15.29	2	85.45	11 33	15.77	17	89.13	15 26	15.08	33	93.34	11 04
15.88	27	76.75	15 30	15.60	45	81.29	13 41	15.01	2	85.45	15 13	15.77	17	89.34	15 03	15.53	33	93.37	18 28
16.48	28	76.94	18 19	16.12	45	81.33	18 29	15.60	2	85.47	16 09	16.39	17	89.37	16 05	16.39	34	93.53	15 50
16.48	28	76.95	14 00	14.11	46	81.40	18 42	15.29	2	85.53	14 21	16.48	18	89.53	17 40	16.23	34	93.56	14 20
15.95	28	77.06	12 51	15.63	46	81.46	16 18	15.36	3	85.71	18 31	13.50	19	89.69	10 15	14.48	35	93.63	12 57
15.95	28	77.10	13 19	16.48	46	81.46	15 10	16.48	4	85.90	18 19	14.94	19	89.70	19 34	13.29	35	93.73	11 18
15.63	29	77.15	11 35	16.39	46	81.47	18 15	14.11 :	4	85.94	17 38	15.53	20	90.00	15 38	15.63	35	93.74	16 05
15.88	29	77.28	18 04	15.53	46	81.52	17 05	16.12	4	85.95	17 19	16.48	20	90.02	11 22	14.37	35	93.75	17 09
16.48	29	77.36	15 40	14.48	46	81.55	14 24	15.60	4	86.05	15 12	15.95	20	90.06	13 27	16.39	35	93.87	12 22
15.53	30	77.40	11 28	16.39	47	81.63	11 13	12.36	4	86.12	15 55	15.88	21	90.13	17 12	16.48	36	93.88	12 39
16.16	30	77.46	18 29	16.48	47	81.64	18 00	15.26	5	86.28	13 30	16.23	21	90.13	18 49	15.95	36	93.89	18 26
16.48	30	77.54	14 19	15.19	47	81.85	11 15	13.29	6	86.43	11 39	15.70	21	90.29	15 39	16.39	36	93.98	16 00

25 prec. + 77 sec. + 3′ 16″

251—300				301—350				351—400				401—450				451—500			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.81	32 36	94.00	14 20	16.23	32 55	98.66	12 10	15.98	33 14	3.52	14 52	15.88	33 35	8.65	15 37	16.48	33 58	14.62	15 31
15.70	36	94.01	13 50	15.26	55	98.74	14 37	15.70	14	3.54	14 28	15.19	35	8.73	17 12	16.48	59	14.65	15 02
16.23	37	94.18	14 03	16.39	55	98.77	18 28	15.19	15	3.75	15 32	15.70	35	8.83	14 25	14.73	34 0	15.07	19 59
16.23	37	94.20	13 00	15.70	56	98.88	12 09	16.12	15	3.87	17 09	15.98	36	9.02	10 42	12.84	1	15.14	17 48
16.05	38	94.50	16 37	15.77	56	98.90	18 46	15.70	16	3.96	14 02	15.70	37	9.27	18 08	16.48	1	15.27	17 58
16.48	38	94.60	11 46	15.63	56	99.07	14 02	15.53	16	4.04	19 54	15.53	37	9.30	18 49	16.48	1	15.28	14 04
16.39	38	94.60	11 25	15.12	57	99.36	15 30	16.23	17	4.23	11 01	14.94	37	9.33	13 27	15.63	2	15.51	12 56
16.16	39	94.70	19 30	15.77	58	99.40	19 18	16.12	18	4.41	15 32	15.95	38	9.50	17 35	16.12	2	15.56	15 59
15.60	39	94.86	15 22	16.16	58	99.60	19 17	15.88	18	4.43	16 51	15.81	38	9.59	14 21	15.95	2	15.58	14 02
15.26	40	95.00	17 05	16.39	59	99.67	19 40	14.48	18	4.59	16 15	14.29	38	9.62	13 03	16.48	3	15.76	18 55
16.23	40	95.00	13 18	15.95	59	99.67	18 19	15.43	20	5.10	15 38	12.31	40	9.92	19 24	13.91	4	15.88	17 34
16.39	40	95.12	19 38	16.39	59	99.68	11 56	15.95	21	5.13	13 30	16.48	41	10.22	15 37	13.71	4	15.91	11 15
14.48	41	95.14	14 35	15.88	59	99.71	14 31	15.88	21	5.17	13 12	14.84	42	10.39	12 53	15.95	4	16.01	14 17
16.23	42	95.39	11 54	15.95	59	99.76	11 23	15.53	21	5.19	18 59	16.05	42	10.50	14 35	15.19	4	16.01	12 42
16.23	42	95.49	11 27	16.16	59	99.78	18 25	16.48	21	5.23	10 04	14.11	42	10.51	12 01	15.19	5	16.18	12 38
15.98	42	95.58	10 06	16.05	33 0	99.90	12 41	16.39	22	5.52	17 01	16.16	43	10.66	19 57	16.48	5	16.26	13 44
16.39	42	95.59	19 29	15.26	0	0.03	12 20	15.53	23	5.72	15 49	15.70	43	10.81	18 44	16.48	5	16.35	13 48
15.70	42	95.60	15 51	14.73	0	0.12	11 03	15.88	23	5.84	15 33	15.60	44	10.91	14 35	16.39	6	16.55	15 01
16.05	43	95.71	16 54	15.88	1	0.20	12 41	13.06	24	5.91	13 17	15.36	44	10.97	18 32	16.23	7	16.66	17 38
14.73	43	95.76	10 34	15.46	1	0.37	18 27	15.81	24	6.02	15 11	15.81	44	11.03	15 29	13.29	7	16.78	19 15
16.48	43	95.76	15 55	15.36	2	0.39	14 21	15.36	25	6.23	10 42	15.26	44	11.08	19 58	13.29:	9	17.15	11 23
16.09	43	95.81	10 14	16.48	2	0.52	13 52	14.66	25	6.29	14 07	15.43	44	11.09	16 57	15.95	9	17.29	18 27
15.26	44	96.07	11 22	16.12	2	0.55	17 52	14.29	25	6.33	14 01	15.81	45	11.34	14 50	15.98	9	17.31	14 40
16.05	45	96.19	16 35	15.98	3	0.67	14 41	15.29	26	6.42	17 32	16.05	46	11.42	13 02	15.12	10	17.40	19 56
15.88	45	96.20	15 06	16.48	3	0.67	12 51	14.29	26	6.43	13 32	15.63	46	11.43	14 39	14.11	11	17.72	11 35
14.55	46	96.42	11 50	11.04	4	1.12	15 02	15.43	26	6.61	10 31	15.88	46	11.43	13 02	16.39	12	18.07	19 59
16.23	46	96.44	18 35	15.95	4	1.12	12 49	15.36	27	6.78	12 57	15.53	46	11.44	16 18	15.60	13	18.25	10 22
15.70	46	96.46	14 50	15.19	5	1.23	18 41	15.98	27	6.78	19 44	15.63	47	11.64	13 04	16.48	13	18.26	11 12
15.74	46	96.50	10 09	15.19	5	1.29	11 52	15.46	27	6.81	18 10	16.39	48	12.12	17 56	15.53	14	18.51	18 56
15.63	46	96.59	16 41	14.84	6	1.39	12 53	16.48	27	6.84	17 20	15.77	49	12.18	18 11	16.39	15	18.78	13 48
15.46	46	96.62	15 19	15.88	6	1.44	19 27	13.06	27	6.86	13 56	15.81	49	12.18	10 12	15.60	16	18.91	10 57
12.77	47	96.67	14 02	14.84	6	1.58	11 29	15.53	28	6.90	16 59	13.50	49	12.33	10 26	15.81	17	19.29	10 59
12.61	47	96.69	14 26	16.48	6	1.58	10 40	15.77	28	6.92	19 55	15.88	49	12.36	13 36	15.63	18	19.51	14 59
16.39	49	97.21	17 21	16.48	7	1.65	17 26	15.70	28	6.95	19 41	14.55	50	12.40	17 05	16.16	18	19.61	14 56
15.29	49	97.26	19 35	15.63	7	1.66	13 01	16.48	28	6.99	15 49	15.81	50	12.56	18 10	13.91	19	19.83	17 23
15.12	49	97.29	15 00	16.48	7	1.72	16 55	12.36	28	7.10	13 02	15.70	50	12.57	14 59	16.48	19	19.84	12 23
15.81	49	97.34	17 06	16.23	7	1.76	19 39	15.77	29	7.14	15 14	15.26	50	12.60	13 38	16.48	19	19.84	11 41
16.12	49	97.37	17 51	14.73	7	1.78	13 05	14.66	29	7.20	15 34	15.88	51	12.65	11 13	15.01	19	19.85	14 32
16.23	50	97.38	10 41	16.48	7	1.85	16 14	16.23	29	7.36	14 53	14.91	51	12.80	11 40	16.48	20	20.04	11 36
13.28	50	97.38	17 57	16.05	8	1.92	15 42	16.39	30	7.42	14 32	15.53	52	12.95	16 09	15.36	21	20.26	12 31
15.70	50	97.62	12 51	16.05	8	2.03	17 19	14.29	30	7.50	12 27	13.29	53	13.19	18 35	13.29	22	20.62	10 33
15.81	50	97.62	13 20	15.77	9	2.13	15 10	15.77	31	7.68	18 33	15.77	53	13.21	10 27	16.48	23	20 72	17 44
16.48	51	97.67	12 03	15.88	9	2.20	14 50	15.08	31	7.69	17 49	15.29	53	13.26	16 10	16.23	23	20.73	10 24
16.12	51	97.86	10 31	16.39	9	2.22	19 21	14.11	31	7.82	10 43	16.23	53	13.29	10 31	14.11	24	20.88	18 09
15.95	52	97.97	15 41	16.39	9	2.27	18 10	16.39	32	7.93	14 51	16.23	54	13.39	18 43	15.81	24	20.90	18 18
16.48	52	98.09	10 53	16.39	9	2.32	14 28	16.48	32	7.96	17 06	16.09	54	13.62	10 07	15.63	25	21.13	17 42
15.70	53	98.15	16 00	16.48	11	2.76	17 03	16.16	32	8.09	17 00	14.66	56	13.98	12 00	16.23	25	21.15	19 21
13.91	53	98.21	18 33	16.05	11	2.84	16 20	16.16	33	8.23	11 34	15.53	57	14.20	10 10	13.29	26	21.60	11 26
15.98	53	98.23	18 41	16.48	12	2.92	15 02	16.48	34	8.53	11 51	15.26	58	14.54	11 07	16.39	28	21.89	15 43
14.11	53	98.37	19 42	16.39	12	3.05	11 57	15.98	34	8.56	11 38	15.70	58	14.61	16 51	16.48	28	21.98	13 44

25 prec. + 77 sec. + 3′ 19″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.60	34 28	22.08	11 55	15.88	34 47	26.81	16 09	15.81	35 1	30.20	10 43	14.66	31 21	75.32	2 18	16.39	31 43	80.66	7 22
16.12	29	22.15	13 51	16.39	47	26.82	19 14	16.48	2	30.39	15 31	16.05	21	75.36	9 24	16.02	43	80.66	0 04
15.81	29	22.28	13 09	16.48	47	26.84	18 51	16.23	2	30.48	17 09	15.43	22	75.43	2 07	16.23	43	80.80	2 55
16.48	30	22.51	13 51	16.39	47	26.84	18 33	16.12	2	30.60	14 20	15.08	22	75.52	9 50	16.39	43	80.81	7 08
15.95	30	22.53	11 42	15.63	47	26.87	17 21	15.81	3	30.68	13 37	15.88	23	75.74	9 24	15.98	44	80.95	7 44
14.91	31	22.69	15 48	16.48	48	26.90	15 41	16.48	3	30.85	17 00	16.23	23	75.78	9 16	16.48	44	80.96	1 19
13.06	31	22.72	19 12	13.71	48	27.01	13 45	15.70	4	31.03	15 30	16.48	23	75.86	0 27	14.84	44	80.99	9 27
15.43	31	22.85	19 21	15.88	48	27.05	17 53	15.77	4	31.05	11 52	15.95	24	75.92	3 40	16.39	45	81.16	7 46
15.77	32	22.96	18 12	15.60	48	27.06	18 22	15.63	4	31.07	11 31	15.53	24	75.94	8 33	16.48	45	81.20	9 57
14.84	32	22.97	10 27	12.14	49	27.13	11 10	15.36	5	31.13	11 31	14.29	24	76.00	8 46	11.93	45	81.29	5 39
15.81	32	22.99	19 30	15.77	49	27.18	11 42	16.12	5	31.15	17 28	16.23	25	76.32	3 07	16.48	45	81.33	9 37
16.48	33	23.22	17 59	15.46	49	27.27	19 10	16.48	5	31.32	15 34	16.48	27	76.64	7 12	15.53	45	81.36	3 31
16.48	33	23.34	17 50	16.05	49	27.31	13 42	15.63	5	31.37	10 52	16.48	27	76.64	1 13	15.88	46	81.38	0 52
16.48	34	23.44	11 13	15.36	49	27.31	17 21	16.48	6	31.46	11 31	15.70	27	76.80	4 41	14.94	46	81.40	7 48
9.45	34	23.44	17 21	16.48	50	27.60	16 46	14.84	6	31.46	16 06	14.48	27	76.82	8 16	16.48	46	81.55	3 34
16.48	34	23.45	12 25	15.77	51	27.65	17 10	16.48	6	31.48	10 34	16.48	27	76.83	4 57	14.84	46	81.55	6 25
16.48	34	23.61	15 30	16.05	51	27.72	16 20	16.39	6	31.56	14 12	16.39	28	77.02	5 57	9.45	47	81.85	5 50
16.48	35	23.86	14 19	15.08	51	27.76	14 43	15.43	7	31.79	12 01	15.53	29	77.17	3 21	16.12	48	82.01	4 57
16.16	36	24.07	18 25	16.48	51	27.80	16 07	15.70	7	31.79	12 43	11.80 :	29	77.20	3 33	14.66	48	82.11	8 34
15.88	36	24.10	11 32	15.98	51	27.81	18 29	14.11	8	31.94	13 52	15.98	29	77.21	1 06	16.39	49	82.21	2 14
15.95	37	24.14	13 20	15.19	51	27.83	15 31	15.60	8	31.94	16 50	16.48	30	77.42	7 20	15.95	50	82.49	3 14
15.46	37	24.15	14 38	15.26	52	27.88	13 56	15.70	9	32.16	11 43	15.29	30	77.50	8 12	16.23	50	82.49	1 06
16.39	37	24.21	17 00	15.70	52	27.88	13 34	13.91	10	32.39	14 46	16.48	30	77.50	6 44	16.12	50	82.51	1 18
14.66	38	24.62	18 21	14.48	52	27.88	13 06	16.12	10	32.48	17 51	16.16	31	77.66	7 55	15.36	50	82.61	0 34
16.23	39	24.66	15 22	15.98	52	28.09	11 07	16.12	10	32.52	17 31	16.23	31	77.81	0 43	15.53	51	82.69	5 05
14.91	39	24.66	10 33	16.23	53	28.31	16 18	15.95	11	32.66	18 31	15.70	32	77.95	5 26	16.23	51	82.81	3 35
15.88	39	24.68	14 11	16.16	54	28.39	15 28	15.88	14	33.38	11 32	16.23	32	78.01	9 23	15.46	52	82.99	6 28
16.48	39	24.76	13 14	14.77	55	28.71	16 06	15.19	15	33.66	18 30	15.88	32	78.03	2 58	15.46	53	83.18	3 43
16.16	39	24.81	19 10	16.48	55	28.73	13 57	15.19	15	33.66	11 21	16.48	33	78.36	5 07	16.48	53	83.23	6 59
16.48	40	24.95	19 34	15.95	55	28.76	14 18	15.12	15	33.68	17 19	16.48	35	78.68	9 08	15.70	53	83.28	9 24
16.12	40	24.96	15 02	16.23	56	28.88	19 42	16.16	15	33.71	12 51	14.11	35	78.70	2 34	15.88	53	83.29	8 23
15.36	40	24.98	12 23	15.19	56	28.89	15 14	15.70	15	33.76	18 11	16.23	36	78.96	6 44	15.26	53	83.32	7 34
15.63	40	25.01	17 42	15.98	56	28.98	12 31	15.95	15	33.83	18 22	15.60	36	79.11	2 26	9.45	53	83.35	5 05
16.48	41	25.20	19 14	15.70	57	29.15	14 10	16.05	15	33.87	17 21	14.03	36	79.11	5 52	15.88	53	83.36	8 38
16.23	41	25.23	16 56	13.29	57	29.20	12 51	15.26	31 16	74.04	0 01	15.43	37	79.22	2 32	15.98	54	83.60	6 43
16.39	41	25.23	16 03	16.39	57	29.28	18 55	16.48	17	74.22	8 38	15.46	37	79.30	6 55	15.53	55	83.68	8 32
16.48	41	25.37	16 44	15.29	57	29.34	14 08	15.77	17	74.32	7 41	16.12	38	79.50	7 09	15.53	55	83.68	6 35
16.48	42	25.46	18 16	16.23	58	29.38	18 26	15.95	18	74.38	5 54	16.48	38	79.62	4 01	16.39	56	83.90	5 37
16.05	42	25.49	13 15	15.98	58	29.39	15 40	15.88	18	74.55	5 59	16.16	39	79.87	2 07	16.12	56	83.92	4 21
16.48	42	25.61	17 43	16.09	58	29.41	10 04	15.77	18	74.55	2 23	16.48	40	79.92	8 26	16.48	56	83.96	3 32
13.50	42	25.62	16 26	15.95	58	29.54	13 21	15.53	18	74.61	4 31	16.12	40	79.92	3 53	15.77	56	83.99	6 24
14.94	43	25.63	17 32	15.53	59	29.70	17 18	15.26	18	74.62	2 10	16.12	40	79.99	4 59	16.48	56	84.02	8 02
15.29	43	25.68	17 26	15.88	59	29.85	12 02	16.16	19	74.70	2 07	16.23	41	80.18	1 48	16.16	56	84.05	8 36
14.91	43	25.81	19 33	16.48	59	29.87	19 31	15.01	19	74.81	3 53	16.48	41	80.18	2 04	16.48	56	84.06	9 52
16.39	44	25.93	12 02	15.81	35 0	29.88	19 08	15.88	19	74.84	3 06	14.77	41	80.30	5 05	16.12	57	84.19	9 03
16.05	44	25.95	12 10	15.81	0	29.92	18 28	15.98	19	74.84	4 07	16.48	42	80.38	1 18	14.84	57	84.24	1 18
16.48	46	26.43	14 47	15.81	0	29.93	12 02	16.05	20	74.98	8 44	16.48	42	80.41	4 16	15.43	57	84.25	8 16
15.81	46	26.53	17 22	15.26	0	30.00	18 43	15.12	21	75.19	4 24	15.46	42	80.42	5 53	16.48	57	84.29	2 30
15.53	46	26.55	18 02	16.48	0	30.08	11 22	15.88	21	75.23	1 00	16.12	42	80.61	7 02	16.48	58	84.39	1 56
16.48	47	26.67	10 47	11.86	0	30.10	19 15	15.63	21	75.30	0 25	16.39	42	80.61	8 55	16.39	58	84.48	3 14

25 prec. + 77 sec. + 3′ 19″.

751—800				801—850				851—900				901—950				951—1000			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.53	31 59	84.69	5 25	15.53	32 17	89.28	8 03	13.06	32 35	93.66	1 32	15.60	32 54	98.41	6 55	16.39	33 17	4.16	2 02
14.73	32 0	84.96	8 02	15.50	17	89.29	0 19	16.12	35	93.71	5 43	15.95	55	98.83	6 52	16.23	17	4.24	7 52
14.84	0	85.07	5 37	14.11	18	89.39	7 04	16.23	35	93.74	5 07	16.12	56	98.88	9 16	15.70	17	4.37	6 10
16.48	0	85.10	7 20	14.94	18	89.45	7 46	15.43	35	93.75	7 18	15.98	56	98.88	4 25	16.05	18	4.39	5 48
16.05	1	85.25	5 12	14.48 :	18	89.45	5 25	16.48	36	94.07	0 56	15.29	56	99.01	0 38	16.23 :	18	4.40	5 06
16.48	1	85.33	1 40	14.98	18	89.54	6 49	13.50	36	94.12	4 24	15.43	56	99.07	1 12	16.05	18	4.45	8 10
16.39	2	85.45	7 34	15.26	20	89.95	3 24	16.16	37	94.18	0 06	15.95	56	99.10	2 56	15.43	18	4.45	8 26
16.48	2	85.46	7 12	16.48	20	90.00	2 32	16.48	37	94.18	0 22	15.01	57	99.13	6 55	15.46	19	4.65	6 18
15.12	2	85.49	3 26	15.43	20	90.03	3 33	16.39	38	94.42	3 26	16.05	57	99.20	8 24	15.12	19	4.84	7 14
14.41	2	85.58	0 38	14.84	20	90.05	3 03	15.70	38	94.47	7 05	15.70	57	99.21	8 06	11.39	20	4.97	8 12
16.39	4	85.97	0 59	16.48	21	90.13	9 12	14.11	38	94.47	8 09	15.60	57	99.25	1 04	16.23	21	5.13	6 38
14.29	4	85.97	2 59	16.16	22	90.44	9 14	16.48	38	94.55	1 14	16.16	57	99.30	8 54	15.53	21	5.31	7 03
15.36	5	86.17	9 02	16.48	23	90.64	8 32	16.39	39	94.63	8 46	10.57	57	99.36	9 25	16.23	22	5.44	2 36
16.31	5	86.23	9 42	16.39	23	90.67	7 54	15.29	39	94.63	6 32	15.77	58	99.40	0 28	15.19	22	5.51	2 40
15.63	5	86.25	4 27	15.81	23	90.68	3 20	16.16	39	94.82	8 32	15.53	58	99.49	3 26	15.50	22	5.60	9 41
15.39	5	86.35	0 01	16.48	23	90.73	7 27	16.39	39	94.86	8 46	16.48	59	99.71	1 48	15.70	23	5.66	3 06
16.23	6	86.42	4 25	14.29	23	90.74	2 31	16.48	40	94.91	9 46	15.88	59	99.87	9 41	16.23	23	5.70	6 54
15.88	6	86.46	3 35	15.77	23	90.86	8 44	16.48	40	95.12	1 54	16.05	33 0	99.90	9 32	16.09	24	5.89	0 09
14.94	6	86.46	0 52	15.36	24	90.89	3 35	16.48	41	95.20	6 32	16.48	0	0.01	8 47	16.05	24	6.02	5 15
16.16	6	86.57	2 10	14.11	24	90.97	5 53	16.48	41	95.31	3 57	15.98	1	0.26	3 48	15.46	24	6.03	3 36
15.70	7	86.68	1 48	15.19	25	91.25	4 47	16.48	41	95.32	0 08	15.95	2	0.40	2 34	15.19	25	6.26	0 02
16.23	8	86.98	0 12	16.39	25	91.26	6 01	15.46	42	95.42	4 04	15.63	4	0.89	2 12	15.81	25	6.30	7 54
8.65*	9	87.13	2 26	13.91	25	91.28	6 17	16.16	42	95.52	3 04	15.81	4	0.98	2 04	16.48	25	6.35	3 31
15.88	9	87.17	7 24	15.60	26	91.38	7 35	15.88	43	95.63	6 21	15.53	4	1.05	3 24	16.48	25	6.35	3 22
11.93	9	87.27	1 20	16.48	26	91.38	6 56	16.23	43	95.70	1 38	16.48	5	1.17	6 34	15.60	26	6.55	1 06
16.02	9	87.32	9 45	15.77	26	91.43	6 13	15.77	43	95.72	6 34	16.23	7	1.71	3 26	13.91	26	6.60	5 01
14.66	10	87.44	1 40	16.05	26	91.45	5 44	15.98	43	95.72	9 04	16.48	7	1.80	5 15	16.48	29	7.33	6 26
15.88	10	87.52	2 06	15.77	26	91.54	6 44	15.95	43	95.78	2 05	15.08	8	1.90	5 45	15.77	29	7.33	1 06
15.43	10	87.55	2 44	16.48	27	91.68	7 37	15.46	43	95.80	7 02	16.48	8	1.90	8 22	16.48	30	7.43	8 52
14.94	12	87.96	4 39	15.46	27	91.80	3 02	14.29	44	95.92	7 32	16.23	8	1.97	9 53	15.77	30	7.43	7 18
14.59	12	88.03	7 36	14.91	28	91.88	0 09	12.84	44	95.93	1 16	16.48	8	1.99	4 27	15.53	30	7.56	6 11
16.05	12	88.10	1 56	15.29	28	91.96	8 36	15.95	44	95.97	3 57	15.29	9	2.31	7 52	13.50	31	7.63	0 05
15.88	13	88.19	7 40	12.84	28	92.03	1 41	15.98	44	96.01	7 06	16.39	10	2.42	0 34	14.11	31	7.76	8 41
15.98	13	88.26	4 05	16.39	28	92.03	0 01	15.63	44	96.06	0 38	15.01	10	2.42	5 18	16.48	31	7.79	2 14
16.48	13	88.32	1 40	15.81	28	92.05	9 59	15.12	45	96.22	9 21	12.84	10	2.42	6 48	16.39	31	7.83	6 36
15.98	13	88.36	5 50	16.39	28	92.10	2 14	15.98	46	96.39	7 02	14.84	10	2.59	7 45	16.39	31	7.85	7 37
12.84	14	88.46	1 10	15.95	28	92.11	9 43	16.05	46	96.61	9 13	16.39	11	2.84	9 31	15.29	32	7.89	8 04
15.88	14	88.47	0 44	15.53	29	92.15	5 26	16.16	46	96.62	9 15	15.98	12	2.98	1 57	15.95	32	7.93	8 34
16.16	14	88.53	8 00	16.39	29	92.26	0 12	16.39	47	96.64	9 03	15.91	12	3.12	9 52	15.43	33	8.29	9 20
15.77	14	88.55	7 34	15.88	29	92.27	2 34	15.95	48	97.03	6 14	16.48	13	3.37	4 51	15.53	33	8.29	1 34
15.88	14	88.58	8 08	16.48	30	92.39	2 22	13.52	48	97.06	7 21	16.05	14	3.47	1 01	14.03	34	8.41	0 10
16.09	14	88.58	0 17	16.39	30	92.39	1 08	16.12	49	97.18	8 51	15.98	15	3.67	3 34	15.53	34	8.45	2 04
15.60	15	88.63	6 53	16.39	30	92.40	0 23	16.12	49	97.18	8 21	16.48	15	3.71	9 25	15.12	35	8.65	7 15
16.16	15	88.65	7 18	16.48	30	92.47	1 51	16.48	49	97.32	8 39	14.66	15	3.71	4 53	16.48	35	8.75	5 54
16.48	15	88.73	3 53	14.94	30	92.56	6 52	12.60	50	97.58	5 09	14.66	15	3.76	7 42	15.95	36	8.88	7 14
16.48	15	88.84	4 35	15.53	32	92.96	4 37	15.63	51	97.70	2 08	16.12	16	3.96	8 14	15.95	36	8.98	7 04
14.73	16	89.03	7 22	15.36	33	93.13	5 48	16.48	51	97.79	1 26	15.53	16	4.00	3 04	13.29	36	9.01	6 49
16.12	17	89.18	5 25	15.53	33	93.14	0 40	14.03	51	97.80	9 29	16.02	16	4.02	0 26	16.48	36	9.02	3 43
16.48	17	89.19	7 44	16.12	33	93.30	5 43	15.98	52	97.92	4 47	15.19	16	4.07	3 33	16.48	36	9.12	5 17
14.59	17	89.25	5 41	16.48	33	93.32	0 07	16.48	53	98.18	7 32	15.12	16	4.11	0 46	16.48	37	9.23	2 27

25 prec. + 77 sec. + 3′ 17″.

1001—1050				1051—1100				1101—1150				1151—1200				1201—1250			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.39	33 37	9.25	4 57	15.36	33 58	14.45	3 31	16.48	34 19	19.71	8 40	15.60	34 39	24.69	5 32	15.01	35 5	31.25	−0 15
16.48	37	9.32	4 05	15.43	58	14.46	8 06	15.46	20	19.90	1 44	15.95	39	24.76	2 32	14.55	6	31.42	9 42
16.48	38	9.56	5 39	11.29	58	14.48	6 58	16.48	20	19.95	7 54	15.60	39	24.82	9 46	15.98	7	31.77	9 14
16.48	38	9.56	4 52	15.46	59	14.80	9 33	15.29	20	19.98	8 56	15.81	39	24.83	3 27	16.23	8	31.88	5 06
14.66	38	9.62	6 32	14.84	59	14.81	5 43	16.48	20	20.00	6 09	15.29	40	24.97	4 37	15.81	9	32.19	6 32
14.77	39	9.74	6 38	15.98	34 0	15.00	5 11	16.12	20	20.09	1 26	15.81	40	24.99	2 10	15.60	9	32.19	1 30
16.48	39	9.84	4 43	15.77	1	15.13	8 27	14.48	21	20.16	3 59	15.43	40	25.02	5 55	13.29	9	32.20	0 14
14.77	40	10.00	6 11	12.16	1	15.17	6 53	16.39	21	20.35	1 56	14.11	44	26.06	8 26	16.23	9	32.30	1 16
16.48	40	10.11	5 45	16.48	1	15.29	9 20	10.04	22	20.42	2 44	15.70	44	26.07	1 26	15.63	10	32.38	7 18
16.02	41	10.20	9 45	14.55	1	15.31	9 37	14.66	22	20.58	5 43	16.48	46	26.46	4 57	14.84	10	32.48	9 21
15.88	41	10.26	4 07	15.95	1	15.36	2 26	16.39	23	20.76	2 48	13.91	46	26.54	8 27	15.46	10	32.51	8 02
15.46	41	10.32	0 55	16.48	2	15.62	4 25	13.06	23	20.77	6 42	15.53	47	26.70	3 54	15.53	10	32.60	0 09
15.29	41	10.35	1 56	15.26	2	15.62	2 28	16.48	23	20.80	8 34	15.98	47	26.75	8 14	16.39	11	32.69	2 07
16.12	42	10.43	9 11	16.48	3	15.82	8 45	16.23	24	21.12	8 55	16.48	47	26.83	4 31	15.70	11	32.69	8 40
15.95	42	10.48	2 56	16.48	4	15.93	5 03	16.09	25	21.15	9 45	14.91	48	27.11	0 07	15.88	11	32.73	0 40
15.19	42	10.57	8 04	14.41	4	15.99	0 26	15.88	25	21.23	7 14	16.48	50	27.50	5 15	15.12	11	32.85	5 55
16.39	42	10.61	0 56	15.81	4	16.10	7 05	14.29	26	21.38	8 45	16.16	51	27.70	9 10	14.94	12	33.02	6 21
15.01	43	10.82	3 47	13.29	5	16.14	4 15	15.95 :	26	21.54	5 13	16.23	51	27.82	7 03	12.48	12	33.04	5 30
16.48	45	11.19	4 48	16.39	5	16.30	3 04	15.01	27	21.64	5 03	16.48	51	27.87	8 54	16.48	12	33.10	2 58
14.55	45	11.21	2 28	15.63	6	16.41	8 29	15.98	27	21.67	7 18	15.23	52	27.91	0 15	15.29	12	33.12	7 24
15.88	45	11.23	6 27	15.53	6	16.47	1 36	15.70	27	21.68	9 02	16.48	52	27.95	5 46	16.05	13	33.28	4 25
14.91	45	11.28	9 14	13.91	6	16.58	1 49	16.48	27	21.78	5 56	16.23	52	27.95	4 24	15.98	13	33.28	1 39
15.98	46	11.62	3 54	14.66	7	16.75	1 22	16.16	28	22.00	8 32	16.05	52	28.02	3 52	15.53	14	33.40	7 00
16.05	47	11.63	7 23	15.88	7	16.82	5 11	16.16	28	22.08	2 03	14.66	52	28.02	6 26	16.23	14	33.48	8 25
12.46	48	11.92	0 11	11.66	8	16.90	6 38	16.48	28	22.09	2 24	16.48	52	28.03	5 38	10.86	14	33.58	−2 19
15.98	48	12.07	5 34	15.12	8	16.91	7 24	14.84	28	22.11	7 44	16.16	52	28.07	4 12	16.39	31 17	74.16	+5 32
16.48	49	12.19	9 00	16.23	8	17.00	9 59	14.84	29	22.29	6 23	16.12	54	28.53	5 55	16.48	17	74.16	1 39
15.36	49	12.22	8 05	16.05	9	17.21	0 00	16.05	29	22.35	2 31	16.16	55	28.73	0 04	15.46	17	74.24	5 32
15.98	49	12.22	5 45	15.95	10	17.38	5 47	14.84	29	22.37	3 04	15.88	55	28.75	6 34	16.48	17	74.26	3 40
13.06	49	12.31	4 51	15.53	10	17.39	8 24	15.88	30	22.38	2 25	16.48	55	28.81	8 52	16.48	17	74.28	3 23
15.88	49	12.32	9 13	15.53	10	17.48	4 15	15.08	30	22.45	2 31	15.46	56	29.09	5 46	15.08	17	74.33	8 54
14.59	49	12.33	7 41	15.46	11	17.75	8 05	16.16	31	22.61	4 47	15.46	56	29.12	9 30	14.11	18	74.46	0 05
16.05	50	12.38	8 07	15.53	12	17.89	0 38	16.23	31	22.69	4 25	15.60	57	29.35	4 26	16.48	18	74.61	8 15
15.98	50	12.43	6 28	16.48	12	17.96	6 23	16.48	31	22.75	7 24	15.19	58	29.44	5 44	16.48	19	74.71	2 05
16.39	50	12.51	2 06	15.60	12	18.09	3 07	15.70	31	22.77	7 02	16.16	58	29.53	3 26	16.05	19	74.72	4 33
15.53	51	12.63	8 46	15.88	13	18.17	1 56	16.48	31	22.85	3 24	16.23	35 0	29.97	9 24	16.48	19	74.81	1 19
16.48	51	12.70	9 31	14.91	13	18.22	0 56	16.48	32	22.90	5 05	15.01	0	29.98	2 54	16.48	20	74.92	1 37
15.95	51	12.74	2 12	15.53	13	18.36	3 27	15.08	32	23.08	8 29	16.48	0	30.11	9 12	15.98	20	74.93	4 28
14.77	51	12.84	6 39	12.36	15	18.63	8 49	16.16	33	23.28	3 16	15.70	1	30.16	3 14	15.60	20	75.12	6 18
16.48	52	13.06	2 41	15.19	15	18.65	5 10	11.98	33	23.29	7 30	12.08	1	30.16	9 38	16.39	20	75.12	2 24
15.77	52	13.11	5 29	15.88	15	18.70	4 42	14.94	35	23.66	4 34	16.16	1	30.22	5 22	15.84	21	75.13	9 30
14.48	53	13.16	6 52	15.81	15	18.79	1 01	14.55	36	23.93	6 56	16.23	1	30.30	3 16	16.48	21	75.18	9 02
16.12	53	13.20	9 16	15.53	15	18.79	4 38	16.48	36	23.99	9 01	15.88	2	30.62	9 17	15.60	21	75.24	1 43
12.36	54	13.48	1 01	15.88	16	18.98	4 39	16.48	36	23.99	0 55	16.16	3	30.72	7 58	15.88	21	75.24	1 23
16.48	54	13.51	6 25	16.12	16	19.05	3 59	16.48	36	24.06	0 33	15.70	3	30.82	8 56	16.48	21	75.33	9 44
15.81	55	13.71	7 38	15.46	17	19.21	4 35	16.48	36	24.08	0 46	15.60	4	30.90	3 56	16.48	22	75.44	1 09
16.39	56	13.89	7 35	15.77	17	19.25	2 24	15.19	37	24.13	0 25	16.48	4	30.92	4 29	15.36	22	75.45	7 53
15.95	56	13.90	3 08	15.60	17	19.25	6 15	14.41	37	24.13	9 54	15.56	4	31.07	0 27	16.48	22	75.51	8 21
15.81	56	14.03	2 38	16.48	18	19.43	8 14	16.48	37	24.25	5 40	15.70	5	31.22	0 56	16.16	22	75.55	4 08
15.53	56	14.04	9 34	16.48	18	19.48	3 35	16.16	38	24.51	0 17	15.29	5	31.23	8 24	16.48	24	75.95	+7 51

25 prec. + 77 sec. + 3′ 20″.

1251—1300				1301—1350				1351—1400				1401—1450				1451—1500			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.70	31 24	76.11	5 02	15.70	31 48	81.98	9 08	15.70	32 12	88.06	9 00	15.26	32 31	92.79	6 33	15.60	32 53	98.32	8 15
15.95	26	76.41	0 49	16.48	48	82.06	0 33	15.70	12	88.07	6 39	15.19	32	92.93	5 13	15.01	54	98.42	1 55
16.48	26	76.45	1 25	15.70	48	82.09	9 32	16.16	13	88.14	9 37	15.98	33	93.24	4 46	16.48	54	98.45	9 52
15.53	27	76.75	8 31	15.88	49	82.25	3 02	16.23	13	88.16	8 02	14.94	33	93.26	1 55	16.48	54	98.51	7 40
14.84	28	76.91	2 12	15.63	49	82.26	4 58	16.12	13	88.18	0 06	16.12	34	93.47	8 12	14.84	54	98.60	0 24
15.70	28	77.04	3 02	15.53	49	82.29	2 13	16.39	13	88.25	6 48	14.66	34	93.51	9 26	16.39	55	98.68	7 41
15.77	28	77.12	8 31	16.48	49	82.33	0 13	15.53	14	88.45	2 40	15.53	34	93.53	2 34	15.70	55	98.82	0 35
16.48	29	77.31	2 18	16.48	50	82.39	8 06	15.81	14	88.47	8 35	15.81	35	93.64	0 59	15.53	56	98.95	1 45
11.80	29	77.36	5 06	16.48	50	82.49	4 11	16.16	14	88.55	6 06	16.16	36	94.00	0 17	15.29	56	98.98	9 13
15.53	30	77.43	7 31	16.39	51	82.87	5 20	15.12	14	88.57	6 37	16.48	37	94.23	2 31	12.84	56	98.98	9 26
16.48	30	77.45	8 57	14.29	52	82.89	3 03	15.36	15	88.67	3 14	16.48	37	94.30	1 47	16.48	56	98.99	4 52
16.48	30	77.54	9 16	15.08	52	82.92	2 09	15.95	16	88.97	8 00	16.48	38	94.49	0 16	15.36	56	99.09	1 05
15.91	30	77.62	9 32	16.12	52	82.97	4 50	16.23	16	89.03	1 52	16.48	38	94.52	7 53	16.16	57	99.19	7 57
15.95	31	77.71	7 13	16.12	54	83.45	7 07	15.95	16	89.05	6 37	16.05	39	94.73	1 32	14.66	57	99.20	0 33
16.48	31	77.82	2 46	15.56	54	83.49	0 04	14.91	16	89.05	0 19	16.48	39	94.74	8 52	15.95	57	99.23	3 40
16.12?	31	77.83	8 11	16.23	54	83.60	0 54	15.88	16	89.05	6 39	15.60	39	94.82	9 03	16.48	57	99.29	0 43
15.63	31	77.83	7 43	16.05	55	83.68	2 13	15.60	16	89.11	2 32	15.60	39	94.84	5 51	16.23	57	99.32	0 59
14.84	33	78.20	1 11	14.48	56	84.08	9 04	16.39	16	89.11	4 24	16.48	40	95.12	2 33	15.08	58	99.41	4 23
16.05?	33	78.21	3 19	16.48	57	84.26	2 36	16.48	17	89.26	2 03	16.05	41	95.28	1 24	15.77	59	99.79	6 13
15.60	33	78.22	2 40	15.95	58	84.48	0 07	15.81	17	89.31	2 38	15.70	42	95.39	8 34	11.94	33 0	99.97	0 10
15.63	33	78.34	9 54	13.91	59	84.67	2 06	15.12	18	89.45	2 28	16.48	42	95.56	7 11	16.12	1	0.29	5 53
16.12	34	78.41	5 01	15.88	59	84.75	5 13	15.98	18	89.47	6 45	15.60	43	95.63	0 05	15.81	1	0.37	3 10
15.70	34	78.53	1 26	15.88	59	84.86	2 07	15.29	19	89.65	3 23	13.91	43	95.76	7 27	15.67	2	0.39	0 10
15.60	34	78.55	7 49	16.23	32 1	85.16	6 35	15.26	19	89.75	3 02	15.95	44	96.01	4 07	15.60	2	0.41	8 56
16.48	34	78.61	3 31	16.23	1	85.17	3 50	14.55	19	89.84	5 18	16.48	45	96.16	7 01	15.63	3	0.69	1 23
16.23	36	78.90	3 36	15.88	1	85.25	9 30	15.12	20	89.91	0 12	16.48	45	96.21	0 47	15.81	3	0.70	4 52
16.05	36	79.01	4 09	15.98	2	85.47	0 51	16.48	20	90.11	4 22	16.48	45	96.31	8 00	15.60	3	0.82	5 41
15.53	37	79.24	5 08	16.48	2	85.53	7 00	16.48	21	90.24	5 49	15.88	45	96.31	6 19	14.84	3	0.82	9 21
16.48	38	79.44	6 49	13.50	3	85.75	3 21	16.48	23	90.63	6 31	15.60	45	96.34	3 24	14.37	4	1.02	5 57
15.74	38	79.46	0 13	15.08	3	85.84	3 14	14.84	23	90.74	3 22	16.23	46	96.38	5 32	15.98	4	1.08	4 40
15.81	39	79.73	7 08	14.91	3	85.85	4 54	15.81	24	91.04	4 48	16.16	46	96.41	4 44	13.06	4	1.10	6 56
16.48	39	79.83	5 10	15.88	4	86.04	7 01	12.84	24	91.08	7 16	13.50	46	96.41	3 52	15.81	5	1.15	9 48
16.39	39	79.85	8 21	14.66	4	86.09	1 05	16.39	25	91.14	6 20	16.16	46	96.44	0 37	16.48	5	1.18	9 12
16.16	40	79.91	3 43	12.16	5	86.17	3 26	16.48	25	91.22	5 24	15.81	46	96.45	0 05	16.48	5	1.28	8 16
12.61	42	80.50	6 15	15.19	5	86.23	0 28	15.81	25	91.35	8 56	15.70	46	96.62	9 34	16.48	6	1.46	2 23
15.63	42	80.54	8 38	16.48	5	86.35	2 48	16.39	25	91.36	5 53	14.66	47	96.75	5 32	12.84	7	1.86	4 38
15.53	42	80.56	9 14	13.50	6	86.44	0 37	15.53	26	91.41	3 54	15.67	48	96.90	0 03	16.48	9	2.18	0 12
15.88	43	80.77	7 58	15.77	7	86.69	6 31	15.63	26	91.56	5 28	15.67	48	96.91	0 27	14.77	9	2.25	5 23
16.39	44	80.97	7 38	14.73	7	86.76	3 25	15.98	27	91.72	5 42	15.43	48	96.94	4 02	16.48	9	2.26	1 01
16.39	44	81.10	6 02	15.29	8	86.96	1 05	15.63	27	91.82	4 01	15.26	48	96.95	0 31	15.70	9	2.28	5 46
15.95	44	81.11	0 43	13.71	8	86.96	3 48	16.48	28	91.92	0 09	15.60	48	97.03	0 19	14.29	11	2.77	7 05
15.77	45	81.21	1 18	10.45	8	87.01	2 33	15.43	28	91.94	5 08	16.39?	51	97.71	0 57	15.36	12	2.89	0 03
14.11	46	81.49	2 01	13.91	8	87.02	0 54	14.84	28	91.95	5 15	16.48	51	97.76	2 11	16.39	12	3.09	6 51
16.23	46	81.59	8 14	16.02	9	87.28	0 12	15.53	29	92.13	7 50	15.50	51	97.80	0 19	15.19	13	3.20	6 58
16.48	47	81.69	3 16	16.48	9	87.34	3 57	15.26	29	92.19	0 27	16.48	52	97.92	1 53	15.08	14	3.38	6 39
15.36	47	81.72	2 03	15.46	10	87.48	6 35	15.88	29	92.22	2 42	15.53	52	97.94	5 14	6.97*	15	3.65	7 09
15.81	47	81.76	0 05	15.12	10	87.50	4 28	15.70	29	92.33	4 52	16.48	52	98.02	7 29	16.23	16	4.08	1 24
16.48	47	81.79	3 41	15.98	10	87.57	1 16	15.70	30	92.48	0 50	14.94	52	98.10	7 10	14.11	17	4.19	7 33
15.98	47	81.84	1 48	16.23	11	87.77	8 01	16.48	30	92.56	6 23	16.48	53	98.16	7 37	16.48	18	4.40	8 42
14.98	48	81.92	9 35	16.48	12	87.97	7 11	15.60	31	92.71	2 34	15.95	53	98.20	8 07	16.48	18	4.52	6 34

25 prec. + 77 sec. + 3′ 17″.

1501—1550				1551—1600				1601—1650				1651—1700				1701—1750			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.39	33 18	4.56	7 24	16.39	33 39	9.77	4 20	15.88	34 1	15.22	3 51	16.23	34 22	20.47	1 23	16.39	34 49	27.22	8 36
16.48	19	4.65	3 38	16.48	41	10.29	6 18	16.12	2	15.40	1 09	16.48	22	20.48	3 48	15.46	49	27.23	6 27
16.48	20	4.97	1 51	15.98	41	10.33	3 12	15.98	2	15.52	3 37	15.01	22	20.60	3 32	15.95	50	27.51	8 31
15.46	20	5.07	0 01	15.26	41	10.33	2 25	15.70	3	15.70	5 10	13.92	23	20.73	5 53	15.01	50	27.54	5 12
16.23	21	5.14	1 19	15.98	41	10.35	1 35	16.23	3	15.76	0 22	16.23	23	20.75	7 31	14.59	51	27.66	3 54
16.48	21	5.22	5 24	15.81	41	10.35	0 04	16.48	4	15.90	3 27	16.48	23	20.77	7 12	16.48	51	27.66	6 23
16.05	21	5.30	0 26	16.05	42	10.39	5 06	15.63	4	15.95	8 05	14.48	25	21.37	6 31	15.98	51	27.74	7 31
14.91	21	5.33	3 33	16.05	42	10.44	6 35	15.26	4	16.06	9 59	16.23	25	21.37	5 33	16.39	52	27.92	8 31
15.60	21	5.36	0 57	16.48	43	10.75	4 28	13.28	5	16.15	1 57	15.63	26	21.56	8 07	16.05	52	27.94	8 50
16.48	22	5.38	3 08	14.11	43	10.76	3 45	13.50	5	16.20	3 42	16.48	27	21.74	9 26	13.71	52	27.94	5 47
14.84	22	5.56	1 37	16.23	43	10.83	9 16	16.48	5	16.30	7 46	15.88	27	21.87	9 19	15.63	52	28.05	5 23
16.05	23	5.66	4 31	15.12	45	11.19	1 41	13.71	5	16.32	3 54	15.36	27	21.87	8 34	16.31	53	28.20	0 12
15.08	23	5.74	9 14	15.98	45	11.33	8 15	13.71	5	16.36	9 21	15.01	28	21.93	5 20	16.05	54	28.44	0 12
16.23	23	5.87	0 56	15.88	46	11.40	6 55	15.01	6	16.57	2 29	16.48	28	21.97	1 24	15.53	54	28.61	9 01
16.48	24	5.92	4 29	15.01	46	11.41	3 04	16.16	6	16.59	2 40	16.48	28	22.02	2 19	15.26	55	28.63	2 10
16.48	24	5.93	4 40	15.33	48	11.94	9 40	16.05	7	16.70	3 58	16.48	28	22.08	2 02	15.81	55	28.73	6 47
16.48	24	5.97	6 28	16.39	48	12.00	7 41	16.48	7	16.82	4 32	14.48	29	22.14	5 47	16.23	55	28.75	1 05
15.19	24	5.98	1 29	15.46	49	12.22	8 03	15.08	7	16.87	0 30	15.70	31	22.65	0 06	15.43	56	28.93	4 48
16.48	24	6.09	2 16	16.48	50	12.50	6 32	15.77	8	16.90	3 33	15.29	33	23.22	9 20	15.43	56	29.00	1 05
15.08	26	6.43	1 37	16.16	50	12.53	5 30	16.16	9	17.16	6 23	15.98	34	23.46	6 43	15.08	56	29.01	8 07
14.91	26	6.43	2 06	16.48	51	12.64	0 23	16.23	9	17.23	4 32	16.39	34	23.56	9 41	16.23	56	29.01	2 13
16.48	26	6.55	0 43	15.98	51	12.68	5 49	16.48	9	17.28	9 06	15.63	35	23.67	6 45	14.84	57	29.16	3 52
15.46	27	6.85	9 51	14.11	51	12.78	4 34	15.53	9	17.35	8 28	16.39	35	23.76	8 42	16.48	58	29.49	4 21
15.12	28	6.95	6 49	15.12	51	12.84	4 56	15.88	10	17.45	7 45	14.66	36	23.93	8 29	16.48	58	29.62	1 13
14.59	28	7.07	1 29	15.19	52	12.88	2 31	13.06	10	17.61	2 17	15.12	36	24.01	9 51	15.19	59	29.69	8 36
15.81	28	7.08	2 11	15.53	52	13.01	8 09	15.63	11	17.78	7 01	16.39	37	24.16	2 23	13.91	59	29.76	7 45
16.12	29	7.15	8 29	15.98	52	13.03	5 58	16.39	11	17.80	7 33	15.98	37	24.26	2 15	16.02	59	29.85	0 13
15.46	29	7.27	7 15	16.48	52	13.03	5 26	15.88	12	17.89	1 24	15.77	37	24.34	2 38	13.52	35 0	29.96	7 05
13.50	29	7.37	2 36	15.19	53	13.22	3 12	15.56	12	17.91	0 01	16.39	40	24.93	8 10	15.98	0	30.03	9 20
16.23	31	7.63	2 55	15.01	53	13.26	2 11	15.95	12	17.96	2 29	14.84	40	25.05	4 54	16.23	1	30.13	1 55
15.36	31	7.65	3 12	13.91	53	13.36	8 09	15.43	13	18.14	4 14	16.05	41	25.22	2 01	16.48	1	30.23	1 21
15.98	31	7.72	5 24	16.48	54	13.43	5 39	15.36	13	18.19	9 40	16.39	41	25.28	1 31	15.95	1	30.32	7 05
16.23	31	7.77	9 24	16.48	54	13.47	8 40	15.98	14	18.38	3 55	16.48	42	25.56	9 10	15.88	1	30.36	6 01
14.59	31	7.85	5 57	15.95	55	13.67	7 37	16.48	14	18.49	2 42	15.63	43	25.69	6 37	15.70	2	30.44	9 48
16.48	32	7.93	7 07	13.29	55	13.71	9 08	16.48	14	18.61	5 44	16.48	43	25.74	7 12	15.98	2	30.58	7 09
15.88	32	7.95	6 05	16.48	56	14.11	1 43	15.43	15	18.75	2 20	16.48	43	25.84	3 28	14.84	3	30.68	7 24
16.05	32	8.01	3 25	15.36	57	14.14	5 11	16.16	15	18.85	7 53	16.48	44	26.06	9 59	15.01	3	30.72	0 19
15.53	32	8.08	7 47	15.12	58	14.43	4 45	15.81	16	18.97	1 21	16.39	45	26.13	6 12	16.16	3	30.83	5 47
16.48	35	8.80	6 25	16.48	58	14.44	0 42	15.08	16	19.06	5 49	16.48	45	26.20	3 47	13.91	4	30.90	4 28
16.23	36	8.94	5 28	15.19	58	14.59	8 08	15.05	16	19.12	0 30	16.16	45	26.27	7 01	11.43	4	30.93	7 17
16.48	36	9.09	3 16	12.61	58	14.61	0 17	16.12	17	19.18	2 07	15.53	46	26.41	0 13	16.48	4	30.98	7 00
16.48	37	9.14	3 02	15.36	58	14.61	3 31	16.16	17	19.32	1 55	15.81	46	26.45	4 33	15.63	5	31.16	3 12
16.48	37	9.15	4 16	15.77	59	14.63	1 12	14.11	18	19.40	1 03	16.48	46	26.47	3 56	15.08	5	31.20	6 41
16.48	37	9.28	3 37	16.48	59	14.63	1 23	15.63	18	19.50	1 45	16.05	46	26.52	4 13	14.84	5	31.27	7 25
16.05	37	9.32	5 51	15.36	59	14.75	7 33	16.48	19	19.64	8 05	15.98	46	26.61	6 33	15.26	6	31.38	4 12
15.46	38	9.43	7 11	16.48	34 0	14.88	5 55	16.48	19	19.68	2 50	15.60	46	26.62	7 11	15.95	6	31.38	6 17
15.88	38	9.51	6 10	14.48	0	14.98	0 45	16.23	20	19.88	4 14	16.48	47	26.64	8 40	16.48	6	31.62	8 17
15.98	38	9.54	2 54	15.12	0	15.01	9 28	16.48	20	19.89	2 38	16.39	47	26.66	9 22	16.31	7	31.65	9 54
15.01	39	9.67	7 49	16.48	0	15.04	7 45	15.46	21	20.35	1 27	14.29	47	26.67	4 25	16.48	7	31.72	8 11
16.16	39	9.74	3 02	14.22	1	15.17	5 43	16.48	22	20.45	3 12	16.39	48	27.02	7 03	15.81	8	32.03	0 57

25 prec. + 77 sec. + 3′ 20″.

1751—1800				1801—1850				1851—1900				1901—1950				1951—2000			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.43	35 8	32.07	6 14	16.39	31 32	77.91	11 38	12.61	31 48	81.90	14 32	16.48	32 11	87.77	12 36	16.23	32 30	92.61	11 58
15.01	9	32.31	6 27	15.81	32	78.02	12 13	16.48	48	81.90	12 37	16.39	12	87.88	17 11	15.81	31	92.65	11 15
15.81	10	32.38	5 32	15.63	33	78.13	15 09	15.81	48	82.01	17 44	16.12	12	87.96	17 28	13.29	31	92.65	14 57
15.88	10	32.44	9 12	15.98	33	78.14	14 20	15.63	48	82.04	19 10	15.88	12	87.97	14 09	16.19	31	92.78	19 36
16.48	10	32.51	8 48	15.88	33	78.23	17 09	15.77	49	82.18	18 06	14.84	12	88.11	12 10	16.12	32	92.96	15 01
16.48	11	32.68	6 11	15.60	33	78.26	12 55	15.36	49	82.32	16 47	15.81	13	88.16	12 04	16.23	32	93.05	16 12
15.43	11	32.74	4 50	16.12	33	78.36	12 28	15.36	50	82.39	10 59	15.43	14	88.53	18 46	16.48	32	93.12	17 40
15.77	12	32.88	8 38	16.16	34	78.42	15 01	15.12	50	82.52	13 12	14.73	14	88.57	14 35	16.48	33	93.27	19 01
15.88	13	33.19	8 26	15.29	34	78.42	12 59	16.23	51	82.66	14 08	16.23	15	88.64	18 47	16.39	33	93.34	14 07
15.88	13	33.20	2 25	15.53	34	78.56	16 30	16.39	53	83.17	18 08	16.48	15	88.65	17 43	16.23	33	93.37	16 47
15.60	13	33.25	7 53	16.48	35	78.74	10 05	16.39	53	83.31	18 36	16.48	15	88.76	15 27	16.48	34	93.42	18 32
15.43	13	33.29	6 05	16.48	35	78.74	11 55	16.48	54	83.39	14 33	16.48	15	88.85	10 47	16.48	34	93.51	12 46
16.48	13	33.33	2 23	15.95	35	78.78	14 18	16.48	54	83.53	17 53	15.95	16	88.93	18 12	15.88	34	93.55	15 55
16.48	14	33.51	7 27	15.36	36	78.89	17 38	16.48	55	83.67	10 53	16.48	16	89.12	12 22	16.48	35	93.70	15 19
14.94	14	33.51	5 24	16.39	36	78.95	17 46	15.12	55	83.69	12 00	16.48	17	89.17	17 27	12.36	35	93.71	13 22
16.39	14	33.56	3 44	14.84	36	79.00	17 02	16.48	55	83.70	10 40	16.48	17	89.35	14 14	15.95	35	93.76	19 04
16.02	31 17	74.15	19 57	15.81	36	79.05	14 06	15.95	55	83.83	17 54	16.16 :	18	89.48	10 47	15.95	36	93.92	11 19
15.88	17	74.24	11 26	15.19	37	79.24	15 02	15.01	56	84.04	13 28	16.39	18	89.53	14 28	15.81	36	94.11	10 14
15.53	17	74.35	13 59	16.48	37	79.29	18 06	15.53	57	84.35	13 17	16.48	18	89.58	15 56	11.24	37	94.13	12 19
15.95	18	74.44	13 09	15.98	38	79.42	18 47	16.48	58	84.39	13 47	16.48	21	90.16	12 28	16.12	37	94.13	13 46
16.16	19	74.86	11 48	15.95	38	79.44	16 53	15.53	58	84.41	10 35	15.95	21	90.16	19 56	15.36	37	94.33	18 30
16.48	20	74.88	14 47	16.48	38	79.50	13 01	16.48	58	84.47	14 37	16.48	21	90.25	14 03	15.12	38	94.41	13 37
14.48	20	74.93	14 27	16.05	38	79.51	16 25	16.23	58	84.48	11 43	16.16	21	90.34	18 09	15.53	38	94.41	10 29
15.60	20	75.05	17 24	16.16	38	79.57	15 25	14.11	58	84.62	12 59	16.39	21	90.37	15 13	16.48	38	94.49	14 14
15.50	20	75.06	10 31	15.98	39	79.80	11 11	16.48	32 0	84.98	14 42	12.36	22	90.46	11 34	16.48	38	94.57	11 28
15.36	20	75.10	16 07	16.48	39	79.81	13 24	11.30	0	85.05	10 22	16.48	22	90.55	14 26	16.39	39	94.64	16 34
12.61	22	75.40	18 00	16.48	39	79.85	12 50	14.48	0	85.08	11 48	16.39	22	90.59	16 40	15.08	39	94.73	18 08
15.26	22	75.42	15 26	16.48	39	79.89	12 41	16.48	1	85.19	18 56	15.98	22	90.62	12 24	16.48	39	94.73	12 03
14.94	22	75.57	16 19	16.05	40	79.98	11 46	15.77	1	85.25	12 56	15.95	23	90.63	14 52	15.53	39	94.75	13 30
16.39	22	75.57	14 06	15.98	40	80.02	11 39	16.48	2	85.40	12 06	15.36	23	90.64	16 32	16.39	39	94.78	12 27
16.05	23	75.64	11 09	16.48	40	80.08	16 21	16.48	2	85.47	11 51	16.23	23	90.71	11 31	16.16	39	94.79	16 45
15.81	23	75.65	15 43	16.48	41	80.22	12 57	15.53	2	85.56	14 10	16.48	23	90.75	14 59	16.16	39	94.79	16 56
16.48	23	75.75	13 48	15.88	42	80.52	13 04	14.84	2	85.56	15 19	15.01	23	90.87	19 59	15.81	39	94.80	18 08
16.48	23	75.82	16 57	15.98	42	80.59	13 26	16.12	2	85.59	10 34	16.39	25	91.19	14 28	13.06	39	94.81	14 02
16.48	24	75.99	15 13	10.70	43	80.71	16 58	15.43	3	85.75	10 43	16.48	25	91.35	16 12	15.88	39	94.83	18 42
16.48	25	76.23	17 24	16.48	44	80.89	17 35	16.48	3	85.80	14 39	16.48	26	91.43	16 27	16.23	40	94.92	17 47
15.53	26	76.60	13 26	16.48	44	80.95	18 12	14.66	4	86.10	18 48	15.46	26	91.55	12 46	16.48	40	95.03	16 37
16.48	26	76.62	15 45	15.88	44	81.02	10 55	16.23	5	86.18	19 16	15.53	27	91.63	13 16	16.39	41	95.25	16 41
15.46	27	76.66	11 07	16.48	44	81.02	14 28	15.70	5	86.30	12 29	16.48	27	91.64	14 37	16.48	42	95.45	15 56
16.05	27	76.67	16 06	16.48	44	81.09	19 35	15.98	6	86.58	16 27	16.48	27	91.75	15 29	16.48	42	95.52	12 22
16.48	27	76.73	13 54	16.39	44	81.11	17 40	15.01	7	86.64	16 15	16.39	27	91.83	17 23	14.66	42	95.55	14 55
14.66	27	76.82	14 25	15.98	45	81.20	11 09	15.70	7	86.70	19 14	16.16	27	91.85	14 27	16.48	42	95.61	11 32
15.70	27	76.85	16 28	15.98	45	81.20	14 10	16.48	7	86.76	19 24	15.29	28	91.91	16 07	16.48	43	95.69	12 24
16.48	27	76.86	15 45	15.63	45	81.36	12 28	15.08	7	86.79	17 21	15.95	28	91.97	14 38	15.36	44	95.92	14 56
15.26	28	76.90	19 20	15.60	46	81.50	12 17	15.29	8	87.04	17 00	15.53	28	92.07	12 56	14.29	44	96.06	19 38
16.23	29	77.32	12 06	16.48	46	81.50	14 30	16.48	9	87.25	11 46	16.39	29	92.20	14 12	15.46	44	96.12	17 19
15.88	29	77.34	13 37	15.63	46	81.50	17 16	15.12	10	87.38	18 13	16.16	29	92.21	16 47	14.84	45	96.15	10 16
16.05	30	77.55	13 38	16.48	47	81.64	16 57	15.60	10	87.48	19 36	15.60	29	92.36	17 34	14.84	45	96.19	13 38
16.48	31	77.64	13 52	15.98	47	81.75	11 51	14.29	10	87.49	12 00	15.01	30	92.54	13 52	15.46	45	96.22	13 08
15.98	31	77.72	12 06	16.48	48	81.90	17 08	15.19	10	87.56	13 37	16.48	30	92.60	17 45	15.26	45	96.30	13 25

25 prec. + 77 sec. + 3′ 16″.

2001—2050				2051—2100				2101—2150				2151—2200				2201—2250			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.12	32 46	96.59	11 39	15.60	33 0	0.00	14 00	15.88	33 22	5.43	16 37	15.29	33 42	10.48	13 36	15.46	34 2	15.54	11 40
16.23	46	96.61	12 59	16.16	0	0.02	14 29	14.48	23	5.77	13 20	15.36	42	10.58	10 53	16.05	4	16.11	12 16
15.36	46	96.61	11 21	14.91	0	0.03	17 30	15.63	23	5.85	14 26	15.26	43	10.65	15 27	16.48	4	16.12	11 29
16.48	47	96.71	13 34	15.77	0	0.10	11 52	15.26	23	5.87	18 04	16.02	43	10.66	10 28	16.48	5	16.21	15 57
16.23	47	96.82	15 13	16.48	1	0.27	12 22	15.01	25	6.18	17 46	16.39	43	10.79	17 04	11.08	5	16.21	18 52
15.63	47	96.83	18 35	16.48	1	0.28	19 14	15.12	25	6.19	11 38	16.48	43	10.81	10 37	15.43	6	16.43	13 46
16.48	47	96.84	14 07	15.08	2	0.50	11 47	16.39	26	6.62	19 36	15.43	44	10.90	13 56	16.23	6	16.49	10 46
16.48	48	96.90	19 06	15.63	2	0.50	17 48	16.48	27	6.81	13 34	16.48	44	10.94	16 14	16.39	6	16.51	12 02
10.52	48	96.90	12 58	15.77	2	0.51	11 30	15.95	28	6.95	10 19	16.39	44	11.07	19 17	16.39	6	16.52	14 57
15.81	48	96.94	18 46	16.05	3	0.71	18 47	15.39	28	6.97	19 38	16.48	46	11.45	17 49	15.46	6	16.58	10 41
15.88	48	97.09	19 39	15.60	3	0.80	11 05	12.60	28	6.98	17 02	15.81	46	11.45	15 15	16.12	7	16.73	17 17
16.48	49	97.14	11 46	15.77	3	0.81	17 48	15.26	28	7.06	14 04	15.53	47	11.71	10 34	15.77	8	16.95	16 59
14.66	49	97.20	18 57	15.98	3	0.82	17 17	16.48	28	7.08	19 20	16.39	47	11.78	18 31	15.01	8	16.97	13 22
15.26	49	97.22	12 39	16.48	4	0.90	19 05	15.19	28	7.12	11 38	16.48	47	11.85	12 29	16.48	8	17.08	11 42
14.84	49	97.26	15 09	16.12	4	0.94	18 15	16.48	29	7.13	18 58	16.48	49	12.29	18 51	16.48	9	17.16	12 24
14.66	49	97.34	10 03	14.84	4	1.01	15 00	15.46	29	7.14	11 56	16.48	49	12.32	14 08	16.48	9	17.32	18 04
15.60	50	97.41	17 48	15.77	5	1.18	15 27	16.23	29	7.25	14 24	14.66	50	12.50	17 33	15.63	9	17.36	11 10
16.48	50	97.43	13 53	14.66	5	1.35	12 02	15.81	29	7.29	15 03	15.63	50	12.60	19 16	16.39	10	17.47	14 54
15.53	50	97.51	17 07	15.08	6	1.49	19 22	15.77	30	7.43	14 24	16.48	51	12.77	13 02	16.48	10	17.49	15 24
15.19	50	97.53	16 23	14.29	6	1.49	11 17	13.20	30	7.62	10 04	15.98	51	12.86	13 29	16.39	10	17.50	16 24
16.48	51	97.70	12 09	14.48	6	1.59	15 15	16.39	31	7.66	16 35	16.48	53	13.24	11 29	15.36	10	17.50	10 29
15.08	51	97.73	18 48	16.23	8	1.97	19 25	16.39	31	7.81	10 26	16.48	53	13.33	11 14	15.53	11	17.72	16 59
14.77	51	97.77	17 03	16.48	8	2.07	13 51	16.48	31	7.82	12 07	16.05	54	13.38	19 25	13.91	12	17.88	19 43
15.29	51	97.81	13 27	15.98	9	2.25	14 33	15.67	31	7.87	19 36	16.48	54	13.41	10 46	15.43	12	17.90	10 30
16.48	52	97.91	11 44	15.01	10	2.39	11 40	15.88	32	7.90	10 41	13.50	54	13.43	13 03	16.48	12	17.92	13 07
15.95	52	98.11	10 21	14.29	10	2.39	10 57	14.77	32	7.93	17 14	16.48	54	13.61	10 03	16.48	12	17.98	18 12
15.98	53	98.24	14 14	16.48	10	2.48	19 45	14.48	32	7.94	15 56	14.66	55	13.64	19 44	15.60	12	18.01	15 19
15.08	54	98.41	15 12	15.56	10	2.50	10 26	15.70	32	8.01	11 10	15.53	55	13.69	12 50	15.46	12	18.07	11 44
16.48	54	98.50	18 38	15.53	11	2.78	18 16	14.29	33	8.35	19 08	15.60	55	13.84	12 27	16.48	13	18.20	14 12
15.81	54	98.51	18 32	14.41	11	2.78	10 28	16.48	33	8.36	17 20	16.16	55	13.85	10 43	14.84	14	18.39	18 18
15.70	56	98.90	13 06	16.48	12	2.95	16 34	15.26	34	8.47	16 34	15.88	56	13.89	15 43	16.12	14	18.47	10 31
16.23	56	98.91	13 31	16.12	13	3.18	16 28	15.60	34	8.57	16 36	11.86	56	14.01	12 04	15.70	14	18.49	10 51
14.11	56	98.98	12 30	16.48	13	3.29	10 04	15.77	35	8.66	19 16	16.48	56	14.03	19 02	15.01	14	18.50	11 54
15.81	56	99.02	19 16	16.48	14	3.39	17 56	15.88	35	8.68	14 17	13.29	57	14.13	16 51	15.36	14	18.52	17 48
16.12	56	99.08	16 36	16.39	14	3.40	14 42	11.23	35	8.71	15 37	16.48	57	14.30	18 52	16.48	15	18.70	12 09
12.36	56	99.12	12 56	14.29	14	3.46	14 58	16.39	37	9.15	18 15	16.16	58	14.39	19 04	16.48	15	18.74	16 11
14.77	57	99.22	10 06	15.36	14	3.58	19 30	13.50	37	9.15	11 16	15.98	58	14.43	18 44	16.16	15	18.80	18 50
15.60	58	99.50	15 05	14.55	15	3.68	17 27	15.19	37	9.17	12 43	12.25	58	14.43	19 51	16.39	16	18.89	17 15
11.79	58	99.50	18 41	16.48	15	3.82	11 49	16.48	37	9.23	18 26	15.63	34 0	14.89	14 59	15.88	16	18.96	19 04
15.26	58	99.51	11 58	16.39	16	3.94	15 55	15.60	37	9.25	14 43	15.43	0	14.89	16 08	15.63	16	18.97	18 07
15.26	58	99.51	13 22	16.05	16	3.98	12 52	16.23	37	9.32	10 23	15.46	0	15.00	15 07	16.39	16	18.98	17 17
14.29	58	99.53	19 11	14.55	16	4.09	12 36	15.88	37	9.33	17 47	15.56	0	15.02	19 45	15.88	17	19.14	17 27
15.36	58	99.58	15 19	12.36	17	4.22	17 51	16.12	38	9.41	11 10	16.05	0	15.08	15 02	15.60	17	19.17	15 34
15.29	58	99.58	15 28	16.48	18	4.38	18 22	16.39	38	9.45	13 07	16.12	0	15.10	16 27	16.39	17	19.35	14 24
16.48	58	99.60	10 42	16.48	18	4.38	18 07	16.48	38	9.53	12 29	15.77	1	15.31	13 54	15.98	18	19.45	18 00
14.11	59	99.72	11 38	15.43	18	4.48	18 52	16.12	38	9.56	14 17	15.63	2	15.39	15 56	16.48	18	19.57	15 14
15.29	59	99.82	12 48	15.81	20	4.90	18 26	16.12	39	9.65	10 54	16.23	2	15.39	18 54	14.77	19	19.70	18 03
15.81	59	99.82	18 30	16.05	21	5.28	17 07	15.98	40	10.01	15 54	16.48	2	15.41	10 14	16.48	19	19.79	12 24
15.01	59	99.83	14 35	15.46	21	5.34	11 07	16.48	41	10.19	13 58	16.48	2	15.41	13 24	16.39	20	20.12	10 49
16.48	33 0	99.96	12 08	15.70	21	5.37	15 49	16.48	42	10.42	13 58	16.16	2	15.51	12 58	16.48	21	20.17	11 01

25 prec. + 77 sec. + 3′ 19″.

2251—2300				2301—2350				2351—2400				2401—2450				2451—2500			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.36	34 22	20.58	13 17	15.50	34 44	26.07	19 29	15.46	35 3	30.78	18 51	16.12	31 22	75.39	21 00	15.74	31 37	79.31	20 07
15.60	23	20.78	14 16	16.48	45	26.17	11 25	15.70	4	31.03	15 43	14.77	22	75.44	23 20	15.01	37	79.37	24 59
16.12	23	20.85	18 24	16.12	45	26.17	11 51	16.48	4	31.07	13 10	15.36	22	75.53	29 10	16.48	38	79.41	23 11
15.60	24	21.01	11 50	15.95	45	26.18	10 34	15.63	4	31.12	10 36	14.59	22	75.53	22 54	16.48	38	79.42	22 52
16.39	24	21.06	10 04	16.12	45	26.25	10 31	16.23	5	31.21	10 41	16.48	23	75.84	28 13	14.91	38	79.46	29 42
15.88	24	21.08	12 57	15.43	45	26.31	16 52	16.48	5	31.21	19 47	12.84	24	75.92	22 32	16.39	38	79.52	24 15
14.48	25	21.24	10 28	15.53	45	26.36	16 03	16.05	5	31.27	11 09	15.88	24	76.09	24 36	16.48	38	79.52	21 20
16.16	25	21.30	13 48	15.29	46	26.38	19 21	15.50	6	31.41	19 51	14.11	24	76.12	26 45	16.48	38	79.54	23 56
15.46	25	21.33	15 23	14.91	46	26.51	11 04	14.66	6	31.51	15 57	13.99	25	76.22	29 10	16.23	39	79.70	29 47
15.26	26	21.38	14 09	16.48	47	26.74	14 42	14.03	6	31.62	16 04	15.95	26	76.38	20 25	14.94	39	79.73	29 14
16.48	26	21.40	11 56	16.16	47	26.76	12 38	16.48	7	31.79	18 06	15.26	26	76.42	25 49	16.39	39	79.83	22 31
16.48	26	21.56	18 56	15.36	47	26.76	13 18	16.39	8	31.97	15 47	16.48	27	76.79	22 24	15.88	40	80.00	21 35
15.53	27	21.66	18 52	16.05	47	26.78	17 14	15.88	9	32.13	13 07	15.70	27	76.81	29 31	16.23	40	80.10	21 54
15.88	27	21.68	13 40	16.48	49	27.16	17 49	16.48	10	32.42	16 12	15.88	27	76.82	26 50	16.05	41	80.19	23 35
16.39	27	21.69	12 38	16.48	49	27.28	11 17	15.60	10	32.45	13 46	16.23	28	76.93	29 51	15.77	41	80.20	22 45
16.02	27	21.77	10 07	16.48	50	27.48	14 39	14.29	11	32.65	16 27	15.95	28	77.07	28 48	16.23	41	80.29	23 41
15.19	28	22.10	13 23	14.84	50	27.57	14 03	15.12	11	32.72	16 49	16.48	29	77.18	24 49	16.48	42	80.38	22 34
15.46	28	22.10	17 56	15.53	50	27.59	14 47	15.95	12	32.89	14 08	15.46	29	77.32	22 34	16.05	42	80.46	24 09
16.05	28	22.12	12 14	12.16	51	27.66	10 53	15.77	12	32.99	14 13	16.48	29	77.34	26 04	16.48	42	80.46	21 33
16.48	29	22.28	18 50	15.08	51	27.84	18 00	15.70	13	33.18	18 38	16.48	29	77.34	28 57	12.74	42	80.59	29 26
15.70	30	22.58	16 57	16.48	51	27.86	11 52	15.26	13	33.32	14 33	16.48	29	77.35	24 21	14.94	42	80.60	28 23
15.01	32	22.92	18 54	15.60	52	28.06	14 37	15.98	15	33.63	16 45	16.48	30	77.55	24 53	15.70	42	80.60	24 44
11.77	32	22.92	18 10	16.23	53	28.16	10 28	15.70	15	33.67	14 39	15.53	30	77.56	24 40	16.48	43	80.66	29 49
16.16	32	22.97	14 24	14.84	54	28.43	13 56	15.98	15	33.69	16 57	16.23	30	77.58	23 05	16.48	43	80.74	24 01
16.48	32	23.01	11 27	15.88	54	28.54	12 25	15.36	16	33.88	19 24	15.60	31	77.64	20 55	15.43	43	80.81	24 32
15.08	32	23.11	19 06	16.48	54	28.55	17 58	13.50	16	33.95	19 14	16.48	31	77.73	22 35	16.23	44	80.98	22 24
14.73	33	23.36	15 08	15.95	54	28.56	13 12	14.11	16	33.98	14 41	14.11	31	77.73	23 18	16.48	45	81.18	24 53
16.16	34	23.39	18 01	15.98	55	28.74	18 48	16.05	31 16	74.04	26 21	15.26	31	77.82	25 22	16.48	45	81.20	24 17
15.63	34	23.47	11 26	16.48	55	28.82	12 56	16.05	16	74.11	25 55	16.48	32	77.91	28 03	16.48	45	81.20	26 42
15.88	34	23.49	14 16	16.48	56	28.92	13 19	16.48	17	74.13	29 11	14.73	32	78.01	22 38	16.16	45	81.20	27 45
15.01	35	23.77	14 00	16.48	56	29.02	17 13	14.55	17	74.20	29 50	13.91	32	78.11	22 47	16.48	45	81.22	28 05
14.66	36	23.89	12 28	16.39	56	29.12	13 51	16.05	17	74.21	20 44	16.48	34	78.41	22 33	16.48	45	81.23	28 23
16.39	36	24.06	19 58	16.05	57	29.24	12 00	16.23	17	74.23	27 50	16.48	34	78.41	22 06	16.48	45	81.35	24 20
15.98	36	24.07	16 42	15.46	57	29.24	17 11	16.48	17	74.24	21 58	16.48	34	78.43	28 04	16.39	46	81.58	23 01
16.39	36	24.09	17 25	15.70	57	29.35	15 57	16.48	17	74.35	29 18	15.77	34	78.49	29 02	16.48	46	81.61	20 52
15.53	37	24.16	11 44	15.26	58	29.38	13 17	16.48	17	74.37	28 02	15.98	34	78.51	23 26	16.48	47	81.70	27 56
16.48	37	24.20	10 51	16.05	58	29.40	11 54	16.48	18	74.42	21 52	15.53	34	78.51	29 08	15.53	47	81.76	27 12
15.95	38	24.40	12 10	15.46	58	29.50	19 15	16.48	18	74.50	26 43	16.48	34	78.54	26 47	16.05	48	81.92	27 04
14.59	39	24.74	10 48	13.72	59	29.63	16 20	15.95	18	74.59	25 53	16.23	34	78.59	20 55	16.48	48	81.96	22 10
16.12	39	24.86	11 48	16.48	59	29.75	16 57	15.95	19	74.64	26 30	16.39	34	78.61	24 57	15.01	48	82.07	29 51
16.16	41	25.16	11 32	15.19	35 0	29.93	16 36	16.23	19	74.75	21 36	16.05	35	78.69	27 15	16.39	49	82.29	25 15
15.88	41	25.16	12 59	16.48	0	30.05	16 55	15.60	19	74.83	20 16	16.39	35	78.78	28 04	14.84	50	82.40	24 38
16.39	41	25.29	10 25	13.91	0	30.11	15 51	16.48	19	74.83	20 29	15.12	35	78.79	29 39	16.48	50	82.41	24 19
16.48	42	25.46	18 08	13.91	1	30.15	18 54	14.84	20	74.96	22 53	15.63	36	78.91	26 52	15.81	50	82.49	25 39
15.88	42	25.54	11 01	13.50	1	30.23	19 22	15.70	20	75.03	20 23	16.48	36	78.99	29 46	16.48	50	82.51	21 42
15.01	42	25.55	15 55	16.16	2	30.43	15 51	16.39	20	75.06	25 03	16.23	36	79.01	24 23	16.23	50	82.59	20 28
15.01	43	25.68	17 35	16.39	3	30.63	18 57	16.16	21	75.22	25 43	15.77	37	79.16	29 35	16.48	51	82.76	27 10
15.08	43	25.82	11 30	13.71	3	30.69	18 34	11.23	21	75.22	28 48	16.48	37	79.17	23 43	16.48	52	82.88	29 31
15.01	44	25.88	11 47	16.23	3	30.73	16 17	13.91	21	75.34	24 10	16.39	37	79.22	25 10	14.48	52	82.94	29 07
16.23	44	25.96	13 46	15.91	3	30.74	19 56	14.73	21	75.35	24 56	16.48	37	79.30	24 26	15.70	53	83.35	26 03

25 prec. + 77 sec. + 3′ 18″.

2501—2550				2551—2600				2601—2650				2651—2700				2701—2750			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.39	31 53	83.37	23 38	16.48	32 7	86.77	25 48	15.81	32 22	90.54	26 23	16.48	32 37	94.37	20 17	16.39	32 51	97.73	24 55
15.36	54	83.40	26 24	16.39	7	86.78	24 04	16.23	23	90.70	26 53	16.48	38	94.38	28 41	15.63	51	97.87	22 17
16.48	54	83.48	21 51	13.50	7	86.84	27 37	16.48	23	90.72	22 39	14.37	38	94.42	20 55	16.39	52	97.96	23 03
15.77	54	83.49	27 13	16.48	8	86.98	21 48	15.81	23	90.82	24 52	16.39	38	94.48	28 13	16.48	52	98.00	29 42
15.77	55	83.66	27 13	13.37	8	87.03	29 51	15.26	23	90.82	23 46	15.70	38	94.57	28 45	15.88	52	98.06	27 33
16.48	55	83.68	23 35	16.09	9	87.16	20 10	15.36	23	90.82	27 35	15.36	39	94.82	21 04	15.53	52	98.11	25 14
16.48	55	83.68	20 01	14.29	9	87.23	20 41	15.26	24	90.96	25 44	15.60	39	94.83	25 09	16.48	53	98.18	22 25
15.70	55	83.71	22 54	16.48	9	87.26	21 05	14.84	24	90.96	23 46	16.05	39	94.84	28 23	16.48	53	98.20	24 07
15.63	55	83.77	28 40	16.48	9	87.34	27 38	15.26	24	91.04	26 46	16.48	40	94.92	21 12	12.84	53	98.26	27 13
14.48	55	83.78	28 02	15.63	9	87.36	21 59	12.60	24	91.04	22 48	12.84	40	94.94	24 51	14.84	53	98.31	25 08
16.48	56	83.98	26 53	15.43	10	87.48	26 32	15.81	24	91.07	28 30	15.53	40	95.00	29 47	14.11	53	98.37	25 30
15.39	56	84.00	29 46	16.12	11	87.70	21 38	14.84	25	91.13	25 50	16.48	40	95.08	20 07	16.48	54	98.62	22 11
16.48	56	84.08	22 17	16.39	11	87.81	25 15	12.60	25	91.14	27 39	16.39	40	95.10	21 24	15.63	55	98.80	21 49
15.63	57	84.17	24 46	16.23	11	87.86	24 33	15.22	25	91.19	20 15	15.98	40	95.11	22 21	15.88	55	98.84	28 02
15.60	57	84.28	25 12	15.67	12	87.96	29 21	15.29	25	91.27	25 27	16.12	41	95.14	28 33	16.48	56	98.92	23 55
15.95	57	84.30	27 18	16.48	12	88.10	20 06	16.48	26	91.44	22 41	15.77	41	95.24	25 15	16.05	56	99.00	26 28
16.12	57	84.35	25 45	16.05	12	88.12	21 58	16.48	26	91.60	25 42	15.43	41	95.32	21 17	15.98	56	99.05	25 48
14.55	57	84.37	29 39	16.23	13	88.13	27 26	16.48	27	91.70	23 30	16.48	42	95.41	20 46	15.70	56	99.07	26 14
15.60	58	84.39	20 08	15.05	14	88.38	29 24	16.39	27	91.74	26 28	16.48	42	95.44	21 54	15.74	57	99.15	20 14
16.48	58	84.48	22 06	16.48	14	88.40	22 01	15.12	27	91.79	27 24	14.91	42	95.50	20 27	13.50	57	99.19	20 43
15.81	58	84.49	24 47	15.29	14	88.43	21 26	15.12	27	91.80	26 38	16.48	42	95.54	24 55	15.60	58	99.39	25 29
10.09	58	84.56	24 10	16.23	15	88.66	27 07	16.48	28	91.94	22 43	15.74	42	95.55	29 29	15.88	58	99.47	22 05
16.12	58	84.56	23 16	14.48	15	88.73	22 52	15.70	28	92.03	25 40	16.39	43	95.72	27 33	15.95	58	99.47	23 12
15.19	59	84.63	25 09	16.48	15	88.75	28 42	13.29	28	92.09	26 26	14.03	43	95.75	29 59	15.77	58	99.61	26 53
16.48	59	84.65	27 06	15.95	15	88.84	22 35	16.23	28	92.10	22 44	16.48	43	95.77	21 29	15.88	59	99.63	20 08
16.48	59	84.71	21 55	16.05	15	88.85	26 59	15.81	29	92.15	20 21	16.48	43	95.80	20 31	15.60	59	99.73	23 08
15.88	59	84.78	26 04	15.53	15	88.85	20 30	15.95	29	92.23	20 51	15.81	43	95.83	20 14	16.23	59	99.79	23 59
15.88	32 0	84.97	23 26	15.50	15	88.86	29 42	16.48	29	92.25	28 32	16.48	44	95.89	22 45	15.53	59	99.82	26 05
15.36	0	84.97	26 02	15.95?	16	88.89	27 34	13.29	29	92.32	20 59	14.66	44	95.96	21 44	14.29	59	99.83	29 09
16.12	0	85.02	21 10	14.11	16	88.91	29 10	16.39	30	92.38	28 57	16.39	45	96.21	21 59	14.48	59	99.85	29 31
15.43	2	85.42	28 13	14.66	16	88.99	26 15	14.73	30	92.44	23 34	16.48	45	96.32	27 27	16.23	33 0	99.99	29 39
15.36	2	85.50	28 21	14.77	16	89.12	21 31	16.48	30	92.54	20 41	13.91	45	96.34	21 48	15.26	0	99.99	28 01
16.23	2	85.55	29 02	15.95	17	89.18	29 23	16.48	30	92.55	20 08	15.19	45	96.35	20 09	16.48	0	0.05	20 58
16.48	2	85.59	28 43	15.08	17	89.23	22 32	14.29	30	92.57	25 16	16.48	46	96.48	22 58	16.48	0	0.08	20 39
16.02	2	85.61	29 53	14.29	17	89.25	26 12	16.16	31	92.80	28 27	15.60	47	96.66	26 22	16.39	1	0.21	24 12
15.53	3	85.74	20 44	16.12	17	89.35	26 24	14.84	31	92.82	23 34	16.48	47	96.85	23 34	15.01	1	0.22	27 54
16.39	3	85.78	29 50	13.91	18	89.42	28 11	16.23	31	92.83	29 13	13.91	48	96.88	27 07	16.48	1	0.23	25 21
15.26	3	85.82	23 00	16.48	18	89.45	23 11	15.36	32	92.92	25 38	16.48	48	96.91	22 35	16.16	1	0.32	24 25
15.46	3	85.86	27 24	16.48	18	89.49	28 45	13.71	33	93.17	24 49	16.09	48	96.95	20 13	15.01	1	0.33	23 02
15.98	3	85.87	29 21	15.60	18	89.51	23 55	16.48	33	93.22	27 10	12.84	48	97.08	28 38	16.23	2	0.39	25 24
15.46	4	85.89	26 42	15.60	19	89.70	21 15	16.48	33	93.23	25 43	13.91	49	97.13	21 01	16.48	2	0.39	26 13
14.66	4	85.97	21 17	16.39	19	89.71	26 13	16.48	34	93.40	28 41	15.29	49	97.22	26 14	16.12	2	0.45	29 20
16.23	4	86.05	22 59	14.84	19	89.74	27 56	16.48	34	93.62	25 09	16.39	49	97.31	22 49	16.23	2	0.55	22 12
16.16	4	86.07	22 47	16.05	20	90.01	22 26	12.36	35	93.70	28 59	15.81	49	97.31	28 24	14.48	2	0.56	20 19
15.88	5	86.32	25 44	16.39	20	90.05	26 22	15.98	35	93.81	26 59	14.48	49	97.35	25 37	16.48	2	0.57	22 31
14.29	6	86.47	28 24	16.48	21	90.13	24 25	15.19	37	94.20	28 38	15.95	50	97.39	23 34	15.63	2	0.58	23 45
15.53	6	86.51	27 11	13.50	21	90.16	28 36	15.01	37	94.21	29 13	15.95	50	97.50	22 44	16.39	2	0.61	28 43
15.81	7	86.65	27 03	14.59	21	90.24	27 21	14.41	37	94.22	28 31	16.48	50	97.53	23 11	15.43	3	0.81	27 42
15.95	7	86.66	26 23	16.05	22	90.49	23 37	13.71	37	94.27	26 24	11.37	50	97.61	23 41	15.77	5	1.14	23 55
16.48	7	86.71	25 17	16.48	22	90.53	22 56	15.70	37	94.33	22 35	15.26	51	97.72	23 56	16.48	5	1.14	23 05

25 prec. + 77 sec. + 3′ 17″.

Area 111.

2751—2800				2801—2850				2851—2900				2901—2950				2951—3000			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.48	33 5	1.18	25 15	15.98	33 23	5.63	20 35	16.05	33 37	9.36	21 36	15.81	33 50	12.62	22 52	11.18	34 8	17.01	21 42
16.39	5	1.20	24 49	16.48	23	5.68	22 37	15.29	38	9.53	25 37	15.46	51	12.68	25 34	16.09	8	17.04	29 42
16.48	5	1.36	27 58	16.39	23	5.77	22 44	16.48	38	9.54	23 36	16.23	52	12.92	27 34	15.67	8	17.05	29 29
16.48	6	1.62	23 02	12.36	23	5.77	26 59	16.23	39	9.71	22 30	16.12	52	13.02	29 13	15.36	8	17.07	22 49
16.23	7	1.66	24 26	15.63	23	5.83	20 47	15.88	39	9.74	21 26	16.48	52	13.05	29 05	15.77	9	17.16	25 15
16.48	7	1.80	29 49	15.60	23	5.86	29 53	15.77	39	9.74	20 28	15.29	52	13.10	26 44	15.81	9	17.18	23 56
11.34	8	1.88	28 47	16.09	23	5.87	20 23	15.88	39	9.77	26 06	16.12	53	13.14	24 22	15.53	9	17.31	21 09
12.84	8	1.98	21 50	15.95	24	5.99	26 52	15.98	39	9.82	25 24	16.12	53	13.21	21 20	16.48	10	17.45	29 24
16.48	8	2.03	26 33	16.05	24	6.02	27 43	16.48	40	9.95	27 40	15.81	53	13.24	28 53	16.16	11	17.86	24 34
15.98	8	2.08	26 06	16.16	24	6.05	28 23	15.98	40	10.03	28 32	14.29	53	13.24	25 02	16.23	12	18.02	20 55
15.19	8	2.08	27 39	16.48	24	6.12	28 02	14.29	40	10.11	24 53	16.48	53	13.27	28 14	15.36	13	18.23	21 37
16.48	9	2.22	27 57	16.23	25	6.14	27 09	15.88	41	10.14	21 00	16.23	53	13.32	21 34	15.43	13	18.37	28 57
16.48	9	2.37	28 23	16.48	25	6.20	27 26	16.48	41	10.15	25 24	14.94	53	13.35	23 14	16.48	13	18.37	24 19
16.48	10	2.41	21 26	16.39	25	6.24	23 31	9.52*	41	10.21	22 44	15.08	53	13.36	27 38	15.46	14	18.47	29 36
16.48	10	2.54	23 04	14.66	25	6.24	20 57	16.39	41	10.22	25 40	15.70	54	13.62	20 57	12.46	14	18.54	29 57
15.46	10	2.56	25 15	16.12	25	6.27	22 04	15.43	41	10.29	28 09	15.63	55	13.71	24 09	15.70	14	18.59	23 32
16.48	10	2.57	26 50	15.70	26	6.45	24 13	15.53	41	10.31	25 06	15.70	56	13.90	29 13	15.08	14	18.59	20 50
16.39	11	2.68	22 30	16.48	26	6.47	25 52	16.05	41	10.33	28 39	15.88	56	14.02	28 04	16.48	15	18.67	23 55
14.11	11	2.83	22 37	16.48	26	6.50	23 52	15.98	42	10.41	29 23	15.01	56	14.04	25 59	15.01	15	18.80	27 03
14.66	11	2.87	25 24	13.50	27	6.70	24 47	13.71	42	10.52	21 13	15.46	56	14.12	26 20	16.12	16	18.94	23 26
15.88	12	2.97	22 24	14.55	27	6.70	26 43	15.12	42	10.55	25 16	14.66	57	14.14	24 31	16.48	16	19.04	27 53
16.48	12	3.07	29 13	15.29	27	6.85	22 56	16.48	43	10.63	22 41	14.73	57	14.20	25 33	16.05	16	19.08	25 35
14.48	13	3.19	22 06	14.91	27	6.87	20 21	16.23	43	10.78	29 16	15.08	57	14.32	21 46	15.53	17	19.16	28 01
16.39	14	3.51	23 54	15.19	28	7.05	23 36	16.48	43	10.83	27 43	16.12	58	14.43	26 42	15.60	17	19.18	23 34
16.39	14	3.57	27 54	13.50	28	7.06	24 30	16.48	43	10.83	22 15	15.88	58	14.59	29 25	15.43	17	19.25	21 25
16.48	15	3.65	27 33	15.60	29	7.13	28 40	15.60	43	10.87	21 37	16.48	58	14.61	27 33	16.48	17	19.29	26 38
16.48	15	3.67	26 11	15.95	29	7.23	25 59	14.66	44	10.92	26 01	15.70	59	14.69	25 50	16.48	18	19.42	25 48
16.23	15	3.85	26 22	15.77	29	7.35	22 16	11.28	44	11.10	23 27	16.48	59	14.87	25 05	16.48	18	19.56	26 36
15.81	16	3.89	25 54	16.48	30	7.40	25 39	14.94	44	11.12	29 00	16.16	34 1	15.15	22 04	16.48	18	19.56	27 20
15.98	16	3.93	26 10	16.48	30	7.52	26 38	13.79	45	11.18	29 25	14.73	1	15.17	20 38	15.81	19	19.66	23 17
16.39	16	4.07	28 13	14.66	31	7.67	20 57	16.48	45	11.21	27 12	15.81	1	15.21	25 11	16.23	19	19.79	21 30
15.26	16	4.12	21 16	15.63	31	7.79	26 14	15.01	45	11.36	24 06	16.39	3	15.66	20 50	15.60	20	19.95	27 00
15.29	17	4.17	26 58	15.19	31	7.82	26 09	15.46	46	11.55	23 46	16.48	3	15.77	22 16	13.71	21	20.14	21 19
14.48	17	4.27	26 07	16.12	32	7.89	26 58	15.88	46	11.61	28 04	14.77	3	15.77	23 33	14.91	21	20.18	24 34
14.29	17	4.31	21 45	16.48	32	7.91	28 48	16.12	46	11.62	27 48	16.23	3	15.80	24 47	14.48	21	20.20	24 41
15.01	18	4.49	22 55	15.98	32	7.95	24 25	15.08	47	11.70	28 20	16.48	5	16.13	20 56	15.98	21	20.27	22 55
15.26	18	4.53	20 25	14.29	32	7.97	23 49	15.08	47	11.71	28 10	16.48	5	16.13	21 30	16.48	22	20.38	21 47
15.26	18	4.54	28 48	16.39	32	8.08	22 16	16.39	47	11.77	23 46	14.77	5	16.30	26 44	16.39	22	20.38	25 04
16.23	18	4.59	24 08	16.12	33	8.14	24 22	16.48	47	11.86	26 34	16.16	5	16.31	23 59	15.01	22	20.52	23 48
15.01	19	4.66	26 52	15.19	33	8.24	23 42	16.48	47	11.87	26 24	16.48	5	16.37	27 52	15.53	23	20.67	27 07
16.48	19	4.78	25 50	16.39	34	8.45	26 18	15.88	48	11.89	22 28	15.88	6	16.52	20 45	15.08	23	20.69	28 05
15.12	19	4.80	21 12	15.98	35	8.66	27 19	16.48	48	11.98	23 22	15.46	6	16.58	20 55	15.53	25	21.14	28 34
16.48	20	4.87	27 49	15.88	35	8.78	22 04	14.84	48	12.02	20 44	16.48	7	16.66	27 44	15.26	25	21.16	25 20
16.16	20	4.95	20 29	15.46	35	8.80	23 32	15.98	49	12.20	20 40	16.48	7	16.80	21 11	15.63	25	21.25	21 20
16.48	20	4.96	27 41	15.98	35	8.87	24 01	15.98	49	12.22	28 23	15.91	7	16.81	29 41	16.48	25	21.37	25 20
15.63	20	5.05	27 03	15.26	36	9.04	29 02	15.46	49	12.35	26 04	16.12	7	16.86	25 53	16.05	26	21.57	21 18
15.95	20	5.06	29 51	15.43	36	9.09	24 04	15.63	50	12.41	24 24	16.48	8	16.90	27 13	15.98	27	21.69	28 19
15.88	20	5.12	25 08	15.26	36	9.12	22 25	15.95	50	12.43	24 02	15.53	8	16.91	23 01	16.39	27	21.70	20 35
15.98	21	5.14	25 56	16.39	37	9.14	23 59	13.71	50	12.54	26 51	16.48	8	16.91	25 44	15.36	27	21.75	22 06
13.71	22	5.50	28 36	16.48	37	9.26	27 54	15.63	50	12.54	27 04	15.53	8	16.96	21 16	15.53	27	21.86	26 00

25 prec. + 77 sec. + 3′ 19″.

3001—3050				3051—3100				3101—3150				3151—3200				3201—3250			
Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.48	34 27	21.87	24 26	15.81	34 44	26.09	26 17	16.05	35 1	30.28	25 55	13.50	31 16	74.10	37 52	15.77	31 30	77.47	35 08
15.88	28	21.94	25 35	15.60	44	26.12	24 46	16.48	1	30.32	27 48	16.23	17	74.16	38 01	15.63	30	77.57	35 19
15.81	28	21.98	29 05	14.29	45	26.14	25 50	15.98	2	30.40	27 33	15.43	17	74.21	32 47	16.48	30	77.61	32 01
16.48	29	22.16	29 43	15.88	45	26.21	23 41	15.12	2	30.40	20 23	14.55	17	74.21	33 03	16.12	31	77.65	36 25
16.48	29	22.17	23 55	15.53	45	26.22	25 44	15.01	2	30.44	23 20	16.48	17	74.27	31 47	15.63	31	77.70	37 20
16.48	29	22.27	26 08	16.48	45	26.27	27 18	16.48	2	30.50	29 32	14.29	18	74.38	34 30	15.12	32	78.01	36 15
13.71	30	22.46	21 53	15.77	45	26.34	27 51	15.98	2	30.52	24 19	14.48	18	74.47	35 48	16.39	32	78.08	36 04
16.12	30	22.52	26 17	15.36	45	26.35	21 55	15.36	2	30.55	27 46	16.39	18	74.49	31 40	14.91	32	78.11	32 28
15.19	31	22.71	25 19	13.50	46	26.52	22 33	16.48	3	30.72	25 40	15.74	18	74.50	30 19	15.26	33	78.35	37 21
13.29	31	22.75	26 09	16.4	47	26.66	22 24	15.98	3	30.74	29 10	16.48	19	74.67	39 18	16.12	34	78.50	32 22
15.53	31	22.84	27 55	16.48	47	26.85	22 08	16.12	3	30.83	20 35	16.39	19	74.81	38 20	16.23	34	78.52	31 42
14.66	32	22.92	22 34	15.53	48	27.04	28 45	16.48	4	30.93	24 42	15.53	19	74.81	34 53	15.88	34	78.57	37 51
16.48	32	22.99	24 48	15.88	49	27.33	20 43	15.53	4	31.00	22 53	15.29	19	74.81	36 01	16.23	34	78.61	35 59
16.48	32	23.12	24 35	15.60	49	27.34	22 08	15.53	4	31.02	26 33	13.06	19	74.83	33 42	15.63	35	78.69	32 49
16.12	33	23.29	20 45	13.08	51	27.65	25 34	16.48	5	31.20	20 57	14.59	20	74.89	35 55	15.98	35	78.71	39 31
16.48	34	23.46	24 34	15.88	51	27.66	20 56	16.05	5	31.32	25 32	15.77	20	75.09	31 11	15.12	35	78.79	31 56
15.43	35	23.74	28 31	14.29	51	27.74	27 56	16.23	6	31.48	29 08	15.63	21	75.20	38 11	16.16	35	78.81	30 32
15.88	35	23.84	27 49	16.48	51	27.79	24 59	16.48	6	31.61	25 17	16.48	21	75.31	30 22	14.84	36	78.92	37 15
16.48	35	23.85	24 26	15.98	51	27.81	21 05	13.29	7	31.71	29 17	16.39	21	75.31	31 01	16.12	36	79.03	35 07
16.48	36	23.94	20 25	16.48	51	27.81	25 20	15.53	7	31.73	22 49	15.81	22	75.41	33 00	16.39	36	79.03	39 52
16.48	37	24.16	29 09	15.53	52	28.06	29 18	16.48	8	31.90	27 04	15.46	22	75.43	33 50	16.48	36	79.09	36 44
15.36	37	24.17	29 01	16.48	53	28.23	23 09	16.48	8	32.12	22 51	15.36	22	75.44	38 41	15.95	36	79.10	39 29
15.77	37	24.23	22 26	16.48	54	28.61	27 01	16.48	9	32.19	27 56	12.84	22	75.51	39 23	16.48	37	79.17	34 56
15.33	37	24.26	29 54	16.05	55	28.65	22 21	16.48	9	32.19	23 25	12.84	22	75.53	32 18	16.48	37	79.17	35 41
16.39	37	24.36	22 53	15.08	55	28.71	28 03	16.48	9	32.19	21 55	16.48	22	75.58	39 53	15.63	37	79.19	36 00
16.48	38	24.44	23 27	16.39	56	28.93	28 55	15.77	9	32.31	22 17	14.73	22	75.61	38 38	16.48	37	79.29	37 15
15.53	38	24.45	28 01	16.48	56	29.03	21 48	15.73	9	32.32	22 01	15.77	23	75.67	30 55	16.23	37	79.29	31 00
15.63	38	24.57	28 43	15.98	56	29.03	23 07	15.70	10	32.51	23 02	16.48	23	75.87	36 31	16.05	37	79.29	38 16
14.11	39	24.67	28 04	15.70	56	29.03	28 13	15.36	11	32.63	21 32	16.48	24	76.00	35 15	15.88	37	79.31	37 58
16.48	39	24.68	24 36	15.08	56	29.05	26 52	15.95	11	32.72	20 23	16.48	24	76.02	36 50	14.84	38	79.39	32 51
15.43	39	24.76	27 42	16 16	57	29.13	26 04	15.81	11	32.81	29 03	15.77	24	76.10	33 51	16.23	38	79.41	32 14
15.81	39	24.77	24 56	16.05	57	29.23	23 06	16.23	12	32.91	25 29	14.41	25	76.22	33 03	16.05	38	79.53	33 08
16.16	40	24.96	27 46	16.39	57	29.23	28 30	14.84	12	33.01	29 14	16.05	25	76.26	31 32	15.63	38	79.54	33 26
16.48	40	24.97	20 43	15.26	57	29.33	28 19	16.16	12	33.09	20 59	16.05	25	76.33	30 40	15.53	38	79.58	35 11
16.23	40	25.09	20 25	16.05	58	29.43	21 07	15.12	13	33.26	29 27	15.70	25	76.35	35 38	14.84	39	79.78	39 39
16.23	40	25.11	21 51	12.11	58	29.43	22 51	15.01	14	33.39	25 49	15.81	26	76.42	39 53	16.48	39	79.82	37 34
15.46	41	25.17	20 54	16.48	58	29.50	25 20	16.48	14	33.40	27 46	15.70	26	76.45	32 17	15.43	40	79.89	30 50
16.48	41	25.21	22 45	16.05	58	29.53	27 24	16.48	14	33.44	26 51	15.98	26	76.53	37 55	15.53	40	79.89	37 51
16.23	41	25.34	23 26	16.48	58	29.54	20 35	15.43	14	33.45	24 35	15.70	26	76.60	37 04	16.48	40	80.05	37 10
16.23	42	25.45	28 54	16.39	59	29.65	27 24	15.56	14	33.47	29 43	15.36	27	76.66	36 19	15.63	40	80.07	39 25
13.52	42	25.54	24 27	15.36	59	29.69	21 33	15.98	14	33.51	20 51	15.98	27	76.70	36 05	15.01	40	80.12	37 09
16.12	42	25.54	29 53	15.46	59	29.80	24 59	13.91	14	33.59	24 39	13.50	27	76.70	32 56	15.95	41	80.35	38 05
15.43	42	25.58	29 29	15.19	35 0	29.88	21 47	13.91	14	33.60	22 51	16.23	28	76.90	35 56	16.48	42	80.41	39 05
16.16	43	25.63	23 02	16.48	0	29.91	24 25	16.48	14	33.62	27 32	14.84	28	77.03	39 42	16.48	42	80.59	38 45
14.37	43	25.71	26 17	15.70	0	29.92	27 37	15.63	15	33.71	22 24	15.70	28	77.05	37 03	15.63	42	80.59	35 01
16.48	43	25.85	21 45	16.12	0	29.94	22 11	14.11	15	33.72	20 51	16.48	29	77.20	35 55	16.48	43	80.68	34 53
16.23	44	25.88	24 55	15.43	0	30.06	23 22	16.39	15	33.86	21 48	16.23	29	77.23	38 33	14.66	43	80.70	38 27
16.48	44	25.96	24 39	15.60	0	30.07	26 43	16.23	16	33.97	29 00	16.48	29	77.29	38 28	16.39	43	80.72	35 06
16.48	44	26.03	27 51	15.98	1	30.21	23 18	16.12	16	33.98	22 32	16.48	29	77.30	35 10	15.70	43	80.73	38 39
15.95	44	26.06	25 13	15.63	1	30.22	24 07	13.50	16	34.00	28 48	12.36	30	77.43	39 34	16.39	44	80.98	33 49

25 prec. + 76 sec. + 3′ 19″.

3251—3300				3301—3350				3351—3400				3401—3450				3451—3500			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.60	31 44	81.00	36 01	16.48	32 2	85.55	33 49	15.01	32 14	88.61	36 45	16.39	32 29	92.21	33 15	16.16	32 43	95.69	31 22
16.05	45	81.18	31 50	14.66	2	85.55	32 41	15.95	15	88.63	39 49	16.16	29	92.23	38 21	15.43	43	95.70	33 12
16.48	45	81.24	32 47	16.39	3	85.70	30 10	15.95	15	88.65	34 06	16.48	29	92.34	37 05	15.46	44	95.88	39 50
15.26	45	81.29	36 18	16.48	3	85.72	34 36	15.88	15	88.66	33 55	15.53	30	92.48	34 27	16.48	44	95.92	32 41
15.98	46	81.50	33 30	16.48	3	85.79	34 01	15.81	15	88.69	37 55	15.81	30	92.52	30 50	16.48	44	96.07	38 44
16.48	47	81.64	32 38	15.88	3	85.83	36 01	16.05	15	88.80	36 12	16.48	30	92.53	38 00	15.60	45	96.16	32 26
15.63	47	81.67	36 54	16.48	3	85.87	35 36	16.48	15	88.83	31 02	15.88	30	92.56	38 21	16.23	45	96.20	38 00
16.12	47	81.69	30 42	16.48	4	85.99	31 34	15.70	15	88.85	35 41	15.98	31	92.69	34 14	14.29	45	96.21	36 42
16.39	47	81.69	38 04	16.48	4	86.02	32 04	16.48	16	88.99	30 41	16.48	31	92.81	38 00	16.48	46	96.51	37 01
16.16	47	81.76	38 54	15.98	4	86.02	33 19	16.48	16	89.05	30 33	15.77	32	92.93	35 53	15.60	46	96.57	39 17
16.48	47	81.77	39 35	16.12	5	86.14	37 25	14.84	17	89.13	33 09	15.46	32	92.93	30 26	16.48	46	96.61	37 32
15.70	47	81.79	31 13	16.48	5	86.15	36 04	15.95	17	89.30	33 02	15.95	32	92.94	37 10	16.12	47	96.64	36 10
16.48	48	81.89	33 46	16.23	5	86.25	30 13	14.73	17	89.30	34 52	15.01	32	93.01	37 35	13.28	47	96.76	32 00
11.57	48	82.07	30 56	15.19	5	86.27	33 51	16.12	18	89.45	34 42	15.53	33	93.13	37 58	16.48	47	96.80	34 37
14.11	49	82.15	33 33	15.77	6	86.52	35 55	15.01	18	89.53	38 57	15.26	33	93.13	30 38	16.48	47	96.81	32 24
16.23	49	82.27	37 00	12.84	7	86.64	38 46	14.59	19	89.70	37 38	16.23	33	93.22	37 26	16.39	48	96.88	37 06
15.36	49	82.37	34 58	15.81	7	86.65	38 37	15.88	20	89.91	34 15	16.16	33	93.24	35 31	16.48	48	97.08	33 40
16.48	50	82.41	33 30	15.29	7	86.82	39 17	15.95	21	90.25	38 18	15.63	33	93.33	38 59	14.84	49	97.15	34 59
15.26	50	82.54	36 41	15.81	8	86.96	36 18	15.29	21	90.32	39 41	15.43	34	93.45	34 40	16.16	49	97.18	33 19
14.29	51	82.77	38 39	16.48	9	87.24	35 21	13.71	21	90.34	34 54	14.84	34	93.47	34 51	16.12	49	97.19	34 49
16.39	51	82.86	34 03	16.16	9	87.25	30 38	13.29	21	90.37	38 57	15.77	34	93.51	32 06	16.48	49	97.21	31 27
13.06	52	82.91	34 22	14.84	9	87.26	33 03	15.53	22	90.38	39 19	16.12	34	93.59	37 02	14.84	49	97.23	36 12
16.23	53	83.16	37 04	14.84	9	87.35	31 24	15.50	22	90.43	30 11	16.48	35	93.71	32 10	16.05	49	97.27	35 50
15.77	53	83.18	36 04	16.48	9	87.37	37 46	15.81	22	90.62	37 02	16.48	36	93.88	32 33	14.77	49	97.28	34 16
16.48	53	83.23	32 06	15.88	10	87.41	30 58	16.23	23	90.71	34 57	15.95	36	93.90	31 12	16.12	49	97.31	38 41
16.48	54	83.49	30 24	16.48	10	87.47	35 21	16.16	23	90.72	36 44	16.48	36	93.92	34 22	15.46	50	97.38	36 42
15.63	55	83.64	35 34	16.12	10	87.52	35 08	16.48	23	90.86	37 18	16.23	36	93.94	30 40	15.88	50	97.59	39 13
14.66	55	83.73	32 51	16.48	10	87.58	33 46	13.71	24	90.91	36 00	15.12	36	93.96	32 04	16.16	51	97.70	39 30
16.23	55	83.76	33 46	13.50	11	87.64	36 12	16.48	24	90.97	31 01	16.23	36	94.06	39 49	16.39	51	97.72	36 14
11.34	56	83.95	36 06	16.48	11	87.72	34 03	13.71	24	91.02	32 29	16.23	37	94.20	39 10	16.16	51	97.73	37 40
15.53	56	83.96	32 57	15.67	11	87.72	30 07	11.80	24	91.02	36 46	16.16	37	94.24	36 25	16.16	52	97.88	30 52
16.48	56	83.99	38 38	15.70	11	87.74	33 55	16.48	24	91.04	33 38	11.37	37	94.33	38 04	16.48	52	97.92	35 30
16.48	56	84.06	34 15	16.48	11	87.84	34 10	16.48	24	91.12	35 40	16.16	38	94.39	34 18	11.23	52	97.94	38 57
15.84	56	84.11	30 08	15.63	11	87.84	34 20	16.48	25	91.18	31 56	15.98	38	94.50	32 18	16.48	52	97.96	34 53
15.36	57	84.24	34 23	15.19	11	87.86	36 31	15.36	25	91.25	34 08	15.60	38	94.50	35 15	15.95	53	98.15	34 13
16.23	57	84.26	31 08	13.06	12	87.92	38 33	15.88	25	91.25	38 10	12.36	39	94.81	35 54	16.12	53	98.19	33 31
16.05	57	84.26	32 25	16.48	12	88.06	32 02	15.53	25	91.31	39 28	15.98	39	94.87	33 59	13.91	53	98.29	35 05
16.48	57	84.36	30 52	15.77	12	88.10	32 40	16.23	25	91.32	33 51	15.95	40	94.90	35 40	10.16	54	98.45	33 21
13.71	57	84.36	39 06	14.84	12	88.12	36 06	15.29	25	91.34	37 12	16.48	40	94.96	31 12	15.88	54	98.47	39 19
15.98	58	84.48	37 50	15.12	12	88.12	38 21	16.48	26	91.43	32 14	15.88	40	94.98	33 35	13.06	54	98.48	30 50
16.48	58	84.56	31 02	15.88	13	88.14	36 25	15.53	26	91.44	34 31	13.71	40	94.98	30 42	14.66	54	98.62	34 46
16.48	58	84.58	38 04	15.36	13	88.22	36 31	16.39	26	91.60	38 48	16.39	40	95.00	36 25	13.92	55	98.65	33 19
15.70	59	84.81	32 47	16.23	13	88.23	31 00	15.88	26	91.60	36 05	15.81	40	95.04	35 52	13.08	55	98.69	33 41
15.36	32 1	85.16	34 21	16.48	13	88.32	31 57	16.48	27	91.74	39 24	15.63	40	95.09	31 35	15.81	56	99.11	35 11
15.88	1	85.24	35 30	16.48	13	88.33	38 12	15.36	27	91.83	39 59	15.36	41	95.24	30 36	13.71	57	99.20	34 48
15.98	1	85.25	32 26	14.73	13	88.33	31 09	15.81	27	91.84	35 36	15.98	41	95.26	33 21	14.11	57	99.26	32 08
16.48	1	85.29	38 05	16.48	14	88.45	38 19	15.19	28	91.93	35 25	15.88	41	95.26	39 46	16.48	58	99.49	39 29
16.12	1	85.32	30 26	15.88	14	88.53	32 32	14.29	28	91.93	37 54	16.48	41	95.31	33 11	16.39	58	99.55	34 06
14.84	1	85.34	35 32	16.05	14	88.53	35 48	16.48	28	92.09	33 35	15.95	41	95.33	33 34	14.55	58	99.55	34 39
16.48	2	85.48	35 29	16.48	14	88.61	31 43	16.23	28	92.11	36 22	15.46	42	95.52	32 43	16.39	58	99.55	36 35

25 prec. + 76 sec. + 3′ 17″.

3501—3550				3551—3600				3601—3650				3651—3700				3701—3750			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.41	32 58	99.55	33 06	16.48	33 14	3.56	32 07	16.05	33 31	7.74	36 14	15.36	33 50	12.60	39 23	15.81	34 7	16.68	37 20
15.01	58	99.57	35 01	16.48	15	3.74	38 16	16.48	31	7.76	38 17	15.43	51	12.64	36 46	15.98	7	16.75	36 58
15.70	59	99.66	33 54	15.77	15	3.76	36 57	15.88	32	8.01	36 52	16.16	51	12.69	37 23	15.88	7	16.76	34 51
15.19	59	99.66	31 44	16.48	15	3.77	39 36	16.39	32	8.02	37 12	16.48	51	12.80	38 29	15.60	7	16.81	31 27
16.48	59	99.69	31 07	15.43	15	3.86	30 32	15.26	34	8.51	37 04	16.48	51	12.81	31 40	15.26	8	16.97	32 12
12.60	59	99.86	36 34	15.88	16	4.05	32 02	15.36	34	8.53	30 08	16.05	52	12.91	36 00	15.08	8	16.97	35 39
14.11	33 0	99.89	35 42	15.26	17	4.18	38 01	12.36	35	8.68	34 45	15.53	52	12.94	30 42	15.77	9	17.13	30 53
15.70	0	99.93	30 40	14.48	17	4.35	39 41	11.34	36	9.07	39 55	16.39	52	13.00	34 51	15.77	9	17.19	33 13
15.36	0	99.99	30 07	15.60	17	4.36	34 21	15.95	36	9.07	32 12	15.01	52	13.01	37 38	15.19	10	17.45	36 50
15.53	0	0.05	35 01	13.71	18	4.41	34 40	14.22	36	9.12	35 19	16.48	52	13.10	31 28	16.39	10	17.48	30 28
15.88	1	0.13	31 16	16.05	18	4.52	31 30	13.99	37	9.20	32 49	16.48	53	13.16	31 11	16 12	10	17.49	39 30
13.29	1	0.27	31 16	12.60	18	4.52	30 56	16.48	37	9.22	36 20	16.16	54	13.39	30 17	15.53	10	17.59	32 53
15.36	1	0.27	32 51	15.46	18	4.54	34 41	15.70	38	9.42	33 11	16.48	54	13.40	36 55	16.48	11	17.69	30 33
15.43	1	0.30	30 32	16.39	19	4.66	34 26	15.29	38	9.52	31 52	16.39	54	13.43	31 07	15.29	11	17.74	33 23
16.16	1	0.36	30 38	15.98	19	4.67	39 19	15.01	38	9.56	33 11	16.48	54	13.47	37 17	16.48	12	17.96	31 30
16.16	2	0.43	35 01	15.70	19	4.70	36 46	15.46	38	9.61	38 00	16.48	54	13.54	39 46	15.08	12	18.01	38 58
16.39	2	0.44	36 12	16.48	19	4.72	35 54	16.48	39	9.66	31 12	15.98	54	13.62	39 20	16.48	12	18.02	34 29
15.98	2	0.57	37 10	16.05	19	4.75	33 41	15.29	40	10.03	37 08	16.39	55	13.72	37 28	16.23	13	18.29	39 13
15.70	3	0.67	37 54	13.50	20	4.90	39 16	16.48	40	10.05	39 30	16.16	55	13.78	34 56	16.48	13	18.36	38 42
16.48	3	0.77	39 30	16.39	20	4.92	38 57	16.39	40	10.12	35 50	15.63	55	13.87	31 01	16.12	13	18.37	32 10
15.95	3	0.79	37 15	16.16	21	5.33	31 03	16.39	40	10.12	37 41	15.88	56	13.90	39 10	15.88	14	18.38	37 17
15.60	5	1.16	31 20	15.77	22	5.58	30 58	15.98	41	10.21	38 40	16.48	56	13.98	31 26	16.48	14	18.55	31 24
12.61	6	1.42	35 10	16.48	22	5.62	32 43	15.60	41	10.21	33 39	16.39	56	14.09	34 11	16.48	14	18.57	31 35
16.12	6	1.50	36 08	15.36	23	5.66	37 20	15.81	41	10.23	36 29	15.81	56	14.11	39 15	16.16	15	18.67	38 28
15.70	7	1.66	36 24	16.48	23	5.76	31 49	16.16	41	10.28	35 48	15.60	57	14.21	30 54	15.01	15	18.78	30 03
11.97	7	1.87	30 42	16.48	23	5.84	30 30	15.60	41	10.32	35 05	14.48	58	14.48	38 05	16.39	15	18.84	39 10
16.48	8	1.90	37 22	13.50	23	5.86	31 30	16.23	42	10.49	35 04	14.11	59	14.79	35 47	16.23	16	18.89	32 18
16.48	8	1.93	37 16	15.29	24	5.94	32 33	15.12	42	10.51	39 14	16.05	59	14.81	32 49	15.88	16	18.92	34 41
15.36	9	2.19	32 54	15.95	24	5.94	39 39	16.23	43	10.63	33 55	16.48	34 0	15.11	38 01	15.12	16	19.03	38 44
14.29	9	2.20	30 30	15.95	24	6.01	39 46	15.98	43	10.70	39 07	16.39	1	15.16	38 51	16.23	16	19.09	38 07
15.60	9	2.25	38 20	16.48	24	6.03	37 14	15.88	43	10.71	38 53	16.48	1	15.29	31 20	11.75	17	19.33	35 50
16.48	9	2.26	38 29	15.43	25	6.27	32 36	15.29	43	10.83	35 45	15.70	1	15.29	36 20	15.70	18	19.43	30 31
15.43	9	2.30	36 50	15.29	25	6.30	36 16	14.11	44	11.03	39 59	15.95	1	15.33	37 13	14.18	18	19.61	34 54
16.05	10	2.48	33 03	13.06	25	6.32	36 56	12.11	44	11.12	36 49	16.48	2	15.52	36 56	15.26	18	19.62	37 41
14.29	11	2.63	31 36	15.33	25	6.34	30 17	16.48	45	11.17	37 20	15.36	3	15.64	31 17	16.48	19	19.66	35 02
15.36	11	2.68	32 22	15.67	26	6.42	30 12	16.48	45	11.21	38 00	16.23	3	15.66	36 36	16.48	19	19.68	34 03
15.29	11	2.77	36 44	15.81	26	6.49	39 54	16.48	45	11.25	37 30	14.84	3	15.78	38 22	16.48	19	19.76	30 17
16.23	11	2.79	35 40	16.23	26	6.49	34 41	13.29	46	11.42	33 17	14.84	3	15.86	35 49	16.48	19	19.83	35 06
16.48	11	2.87	32 20	16.23	27	6.63	32 25	14.91	46	11.43	36 46	16.48	4	15.88	35 30	16.48	19	19.85	31 00
15.63	12	2.92	34 51	15.88	27	6.66	35 51	16.48	47	11.64	39 34	16.48	4	15.88	31 30	16.48	20	19.97	35 13
14.59	12	2.95	38 48	16.48	28	6.98	30 24	16.39	47	11.70	33 13	15.53	4	15.96	38 47	15.88	20	20.04	34 16
16.48	13	3.21	39 23	12.36	28	7.03	37 47	16.48	48	11.94	33 22	16.48	4	15.97	33 17	15.98	20	20.10	39 48
15.95	13	3.22	35 09	16.16	29	7.17	39 21	15.88	48	12.11	35 35	15.70	4	16.03	30 56	16.48	20	20.12	37 45
16.48	13	3.25	39 57	16.39	29	7.37	35 13	15.36	49	12.23	38 20	16.48	5	16.18	33 20	15.88	21	20.15	37 00
16.48	14	3.38	33 07	15.26	30	7.43	32 43	15.29	49	12.23	30 24	12.31	5	16.18	39 33	15.77	22	20.38	39 30
15.70	14	3.41	38 44	15.12	30	7.47	37 58	15.95	49	12.29	38 59	15.19	5	16.35	36 06	16.16	22	20.38	37 24
15.88	14	3.41	32 36	16.23	30	7.52	39 03	15.36	49	12.32	30 22	16.48	6	16.38	33 36	15.98	22	20.39	31 55
16.39	14	3.54	34 47	16.48	30	7.55	39 15	15.36	49	12.36	38 28	16.48	6	16.39	37 01	16.12	22	20.44	38 41
14.11	14	3.54	36 03	16.48	30	7.55	38 40	14.66	50	12.45	36 18	15.36	7	16.65	31 16	13.50	22	20.52	33 54
15.70	14	3.55	35 24	16.48	30	7.61	30 56	15.19	50	12.49	39 36	15.77	7	16.65	36 32	12.74	23	20.63	30 20

25 prec. + 76 sec. + 3′ 19″.

3751—3790				3791—3830				3831—3870				3871—3903			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.12	34 23	20.64	33 09	16.48	34 37	24.33	36 23	16.48	34 49	27.14	32 46	15.70	35 4	30.89	32 39
16.23	23	20.71	36 28	15.33	37	24.33	30 23	13.50	49	27.20	35 36	16.12	4	30.90	31 38
15.26	23	20.71	36 00	15.70	37	24.35	30 38	15.98	49	27.26	32 20	15.36	4	30.91	32 36
12.61	23	20.83	33 15	14.94	38	24.38	37 22	16.48	49	27.30	32 46	15.36	4	30.92	31 37
12.60	23	20.86	33 57	15.19	38	24.44	39 41	14.48	50	27.43	33 02	15.63	4	31.03	31 53
15.70	24	20.95	37 06	16.48	38	24.49	34 50	16.48	50	27.53	37 50	15.53	5	31.16	34 43
14.11	24	21.05	37 51	15.88	38	24.50	33 46	15.53	51	27.65	32 16	15.36	5	31.17	37 57
15.63	25	21.15	35 42	16.48	38	24.53	34 40	15.95	51	27.70	34 31	15.63	5	31.17	32 12
14.84	25	21.25	34 45	13.91	39	24.63	36 37	15.88	51	27.81	38 10	15.46	5	31.31	39 30
15.63	25	21.27	36 26	15.77	39	24.80	36 07	16.48	52	27.92	35 00	15.19	5	31.31	36 48
16.48	25	21.31	37 10	16.23	40	24.92	39 19	15.77	53	28.22	31 12	15.08	5	31.37	33 54
16.48	25	21.35	37 46	16.23	40	25.01	38 20	16.48	53	28.34	35 12	16.48	6	31.39	34 53
15.12	26	21.60	30 11	16.48	40	25.03	35 49	16.05	54	28.42	35 06	15.88	6	31.56	39 20
16.05	26	21.61	30 57	16.48	40	25.03	33 25	16.48	55	28.69	31 25	15.88	7	31.79	39 10
15.19	28	22.03	37 42	15.29	41	25.14	34 51	15.46	55	28.74	37 17	14.18	7	31.84	30 11
15.36	29	22.32	34 21	15.12	41	25.33	33 34	16.23	56	29.02	32 22	15.63	8	31.88	32 18
15.98	29	22.37	35 50	15.29	42	25.40	34 23	15.53	56	29.03	31 13	15.98	8	31.97	38 49
16.23	31	22.64	37 17	14.84	42	25.41	37 38	15.98	57	29.21	31 12	15.70	8	32.07	36 50
15.01	31	22.74	39 19	15.19	42	25.47	37 58	15.26	57	29.22	32 58	15.98	8	32.09	35 22
16.48	31	22.79	31 45	15.43	42	25.49	33 12	15.88	57	29.29	38 20	13.50	9	32.19	31 05
15.60	31	22.83	34 18	16.23	42	25.56	39 01	14.55	58	29.38	38 29	15.26	9	32.22	35 20
15.36	31	22.83	35 42	15.46	42	25.61	37 19	15.29	58	29.41	31 38	15.81	10	32.59	38 41
16.48	31	22.84	37 25	16.48	43	25.65	30 58	15.70	58	29.53	35 21	16.48	11	32.82	34 30
15.53	31	22.87	33 05	16.48	43	25.79	36 00	16.16	58	29.56	31 52	16.48	12	32.89	36 49
15.19	32	22.94	34 45	16.23	43	25.86	33 57	15.60	58	29.57	35 15	16.23	12	32.99	36 57
16.48	32	23.06	35 40	15.63	44	25.95	31 31	15.88	59	29.77	32 22	15.43	12	33.08	35 12
14.29	33	23.14	37 03	13.28	44	26.00	39 05	14.29	35 0	29.93	32 00	16.48	12	33.09	32 45
15.81	33	23.31	33 44	16.39	44	26.02	34 14	15.95	0	29.96	35 05	16.39	12	33.10	39 48
16.48	33	23.36	31 07	16.48	44	26.02	32 04	15.81	0	29.98	38 36	13.50	12	33.10	37 13
16.48	34	23.38	39 27	15.81	44	26.12	35 45	15.81	0	29.98	39 08	15.19	13	33.36	35 12
16.48	34	23.54	39 26	15.36	45	26.19	37 08	16.48	0	30.02	39 20	15.77	14	33.53	37 09
15.63	35	23.76	35 16	16.16	45	26.22	31 01	11.90	0	30.11	38 53	13.29	14	33.53	32 07
16.39	35	23.78	39 48	13.06	45	26.24	30 32	16.39	1	30.20	32 11	15.26	14	33.58	37 19
16.05	35	23.82	32 39	16.48	46	26.52	31 27	16.12	1	30.20	31 52				
15.63	35	23.84	38 20	16.48	47	26.72	37 49	14.66	1	30.26	35 00				
16.05	36	24.10	31 42	12.84	47	26.78	37 13	15.88	2	30.57	39 59				
15.98	37	24.17	31 42	15.01	47	26.82	32 23	15.60	3	30.69	37 38				
16.48	37	24.19	30 05	16.48	48	27.10	30 38	16.16	3	30.71	36 10				
16.39	37	24.20	30 25	16.48	48	27.10	31 05	15.29	3	30.76	38 02				
16.48	37	24.25	34 13	16.23	48	27.12	32 12	14.84	3	30.83	31 20				

25 prec. + 76 sec. + 3′ 22″.

Area 112. Centre for 1900: 20h 37m + 0° 10'.

1—50				51—100				101—150				151—200				201—250			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
15.57	35 16	74.07	15 19	17.17	35 44	81.10	16 34	15.36	36 9	87.17	14 44	15.78	36 34	93.56	17 40	16.42	36 57	99.18	11 36
14.63	17	74.19	18 47	15.86	45	81.18	17 12	14.83	10	87.50	11 41	14.63	35	93.68	18 06	15.52	58	99.53	17 10
17.17	17	74.21	15 09	15.65	45	81.21	19 17	14.24	10	87.52	16 17	16.58	35	93.74	16 06	12.63	58	99.53	13 21
15.95	18	74.52	10 45	17.17	45	81.34	14 43	16.16	11	87.84	12 16	17.08	35	93.82	13 16	15.11	58	99.57	14 27
15.95	18	74.60	19 08	14.71	46	81.43	16 26	17.08	11	87.87	17 47	17.17	36	94.00	17 15	15.31	58	99.59	19 50
14.44	19	74.86	18 26	15.57	46	81.51	10 26	16.79	12	88.12	12 09	15.95	37	94.13	10 42	15.95	59	99.67	12 34
17.17	19	74.87	16 16	16.92	47	81.68	14 55	14.91	12	88.12	17 44	15.44	37	94.23	12 55	17.17	59	99.73	10 02
15.03	20	74.96	18 22	17.17	47	81.81	18 59	16.92	13	88.15	13 25	14.63	37	94.33	10 33	17.17	59	99.79	12 28
17.17	20	75.02	11 22	16.79	47	81.84	16 31	15.99	14	88.44	10 59	16.08	37	94.37	14 31	17.17	59	99.85	13 24
16.79	20	75.05	16 14	15.86	48	81.88	10 36	16.63	14	88.46	12 57	13.46	38	94.59	16 37	17.17	37 2	0.42	19 50
16.71	20	75.10	14 03	15.03	49	82.23	19 51	16.92	14	88.48	13 01	16.79	38	94.60	14 28	13.85	2	0.48	15 51
16.21	22	75.38	17 51	15.15	49	82.26	18 08	16.63	14	88.62	13 42	17.17	39	94.65	13 41	15.74	2	0.55	11 54
15.86	22	75.44	11 27	15.52	49	82.28	15 06	14.83	15	88.78	19 31	17.17	40	95.02	11 45	17.17	3	0.76	18 45
14.24	22	75.60	13 20	13.85	49	82.29	12 00	17.17	16	88.98	13 15	12.33	41	95.14	19 18	17.17	4	0.98	17 38
17.17	23	75.68	16 48	15.40	49	82.33	10 02	17.17	17	89.19	11 14	15.65	41	95.15	11 23	17.17	4	1.07	13 56
16.16	24	76.01	10 57	17.17	50	82.49	15 09	17.17	17	89.26	12 50	15.95	41	95.30	17 37	16.79	4	1.07	13 08
17.17	24	76.05	18 38	16.92	50	82.62	17 31	16.84	17	89.35	11 51	16.92	41	95.31	19 04	17.17	4	1.08	13 34
16.84	24	76.10	16 18	14.63	53	83.25	12 19	16.33	19	89.77	10 02	16.42	42	95.53	14 53	17.08	4	1.11	18 41
12.88	24	76.10	17 31	15.74	53	83.25	14 19	15.11	19	89.81	18 14	16.50	42	95.58	15 15	16.50	5	1.26	17 59
14.56	27	76.70	15 57	17.17	55	83.69	18 13	16.42	21	90.13	13 54	14.91	43	95.66	19 04	14.75	5	1.29	12 17
14.83	27	76.79	19 38	16.58	55	83.70	17 59	15.74	21	90.18	11 21	16.08	43	95.76	17 13	17.17	5	1.34	19 19
16.08	27	76.82	13 06	16.92	55	83.83	17 00	16.58	21	90.19	19 25	14.44	43	95.86	16 22	15.99	7	1.69	11 34
14.63	28	77.10	15 38	17.08	56	83.98	10 34	17.17	22	90.42	16 54	16.79	44	95.98	14 04	11.49	7	1.78	12 25
15.15	29	77.23	13 47	17.08	56	84.01	19 14	13.66	22	90.48	14 49	15.03	44	96.09	14 16	17.08	7	1.79	11 54
13.97	29	77.31	10 25	13.27	56	84.02	19 57	15.65	23	90.73	12 21	17.17	44	96.11	12 40	16.21	8	1.97	17 21
13.85	29	77.36	16 48	15.65	57	84.13	15 30	15.15	23	90.81	12 31	13.54	44	96.12	10 11	17.08	9	2.14	18 13
17.17	30	77.44	13 21	15.11	57	84.36	16 26	16.58	24	90.90	13 48	16.21	45	96.15	11 36	16.63	10	2.57	13 02
17.17	30	77.53	16 16	16.92	58	84.41	13 57	15.03	24	91.02	15 23	16.79	45	96.24	14 47	16.29	11	2.64	18 31
16.08	31	77.69	11 15	12.88	58	84.56	15 58	16.58	24	91.08	12 56	16.37	46	96.45	11 14	16.08	11	2.73	16 33
17.17	32	77.93	19 04	16.84	59	84.67	16 59	17.17	26	91.42	11 55	15.23	46	96.51	18 39	17.17	11	2.74	13 04
14.63	33	78.27	17 27	16.58	59	84.69	14 02	17.17	26	91.62	17 05	17.17	47	96.74	14 59	16.92	11	2.83	19 33
13.19	33	78.34	10 15	17.08	59	84.77	11 07	15.78	27	91.66	17 59	15.65	48	96.91	10 47	15.31	12	3.02	15 53
16.84	34	78.47	16 53	15.23	59	84.77	18 07	17.17	27	91.76	10 24	16.92	49	97.24	10 48	12.04	13	3.17	10 00
15.95	34	78.54	15 12	14.83	36 0	84.94	13 43	16.58	27	91.85	19 07	16.92	49	97.34	13 44	17.17	13	3.24	18 02
14.87	35	78.78	10 26	17.17	2	85.43	18 54	15.31	28	92.02	14 06	17.17	50	97.48	15 44	16.50	14	3.43	19 13
16.84	37	79.31	13 35	15.31	3	85.63	15 57	16.16	29	92.13	16 32	17.17	51	97.67	14 44	17.17	14	3.51	11 15
14.24	38	79.45	15 35	12.52	3	85.66	12 59	15.36	29	92.15	13 46	15.44	51	97.69	11 44	14.05	15	3.86	14 40
16.37	38	79.47	10 21	17.08	3	85.74	12 22	17.17	29	92.18	14 36	17.17	51	97.79	14 42	13.85	16	3.88	12 00
16.50	38	79.55	17 12	17.17	4	85.90	15 52	14.63	29	92.31	14 57	13.27	51	97.85	13 19	16.08	16	3.93	15 16
15.65	39	79.66	19 10	12.88	4	85.95	13 31	16.63	30	92.44	10 44	16.50	52	98.01	10 45	14.75	16	3.93	17 06
15.44	39	79.79	11 19	17.17	4	85.99	18 51	14.75	30	92.48	18 32	15.52	52	98.10	15 00	16.92	16	4.02	13 22
17.17	40	80.07	18 22	16.50	5	86.36	19 53	15.78	30	92.52	13 23	17.17	53	98.26	14 15	15.31	16	4.09	11 30
15.36	41	80.27	15 57	15.36	6	86.38	10 57	16.21	31	92.81	14 36	16.63	53	98.36	15 43	16.42	17	4.14	15 35
17.17	41	80.27	18 36	17.17	6	86.59	18 32	17.17	31	92.82	10 47	17.17	54	98.42	10 27	16.42	17	4.26	19 44
15.99	42	80.49	14 33	15.78	7	86.65	12 21	12.24	31	92.86	19 26	12.88	54	98.58	11 39	13.85	17	4.36	13 30
15.78	43	80.66	19 45	17.08	7	86.69	17 14	16.63	32	92.90	19 36	16.42	55	98.68	14 18	14.24	18	4.40	17 18
15.23	43	80.70	16 08	14.36	7	86.71	14 07	16.50	32	93.02	19 42	15.74	55	98.78	18 22	15.36	18	4.51	13 08
15.65	43	80.84	19 56	14.83	7	86.80	19 47	17.17	32	93.05	10 35	15.78	56	98.90	14 32	16.71	18	4.51	19 15
15.65	44	80.98	19 15	12.42	8	86.92	16 40	17.17	32	93.05	19 26	17.17	56	98.92	11 01	15.23	18	4.59	12 06
15.31	44	81.06	18 05	12.88	8	87.05	11 09	13.85	33	93.28	18 04	14.95	56	99.10	16 07	12.35	19	4.73	13 45

25 prec. + 77 sec. + 5' 16".

251—300				301—350				351—400				401—450				451—500			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.92	37 19	4.86	16 31	16.71	37 42	10.54	16 19	14.05	38 5	16.23	17 34	16.50	38 34	23.45	11 04	16.63	38 59	29.70	11 22
15.52	20	4.91	18 31	13.20	43	10.63	18 52	16.92	6	16.40	12 58	16.08	34	23.50	15 25	16.50	59	29.83	17 58
15.15	21	5.33	17 14	16.92	43	10.64	11 08	15.95	6	16.53	16 27	16.58	34	23.51	19 59	16.84	39 0	29.98	15 29
16.63	21	5.34	17 20	16.63	44	10.89	17 48	13.27	7	16.75	12 23	16.37	35	23.69	15 40	16.37	0	29.99	18 36
16.58	21	5.36	13 08	15.78	44	10.98	17 15	12.46	7	16.82	15 00	16.16	35	23.86	12 04	17.17	0	30.08	16 07
13.20	22	5.39	13 40	15.36	44	11.01	13 24	16.71	9	17.20	11 10	14.95	36	24.12	11 46	16.63	1	30.14	19 06
15.23	22	5.44	16 11	16.63	44	11.03	17 35	15.86	10	17.42	14 42	17.17	37	24.22	13 33	16.21	3	30.65	10 55
17.08	22	5.44	15 59	16.37	45	11.13	15 14	14.83	10	17.47	16 59	17.17	37	24.35	12 50	14.71	3	30.68	16 46
15.57	22	5.46	13 18	13.46	45	11.16	14 02	16.92	11	17.85	19 11	16.21	37	24.37	10 52	16.21	3	30.79	18 09
17.17	23	5.74	11 06	16.08	45	11.27	17 27	13.66	12	17.90	16 09	17.17	38	24.53	16 31	12.80	3	30.84	19 27
17.17	23	5.78	18 31	16.16	47	11.65	12 58	16.16	12	17.92	10 40	12.81	38	24.59	10 39	15.78	4	30.99	12 31
17.17	23	5.85	11 13	15.23	47	11.74	12 15	16.37	13	18.29	12 48	17.17	39	24.83	17 21	12.42	4	31.00	18 59
16.92	24	5.97	11 51	16.42	48	11.89	18 39	15.57	14	18.40	11 40	16.88	40	24.88	10 17	17.17	4	31.03	11 22
15.31	24	5.98	18 22	16.29	48	12.11	17 57	15.86	14	18.60	13 42	16.92	40	24.96	14 12	13.66	5	31.26	18 56
16.92	25	6.15	17 29	15.99	49	12.15	11 42	17.17	15	18.69	12 57	14.40	40	25.03	10 01	16.33	5	31.36	10 01
16.16	25	6.17	10 58	12.65	49	12.17	19 02	16.79	15	18.70	16 17	14.83	40	25.05	15 26	15.86	6	31.47	13 42
15.15	25	6.18	16 01	16.92	49	12.23	13 37	15.23	16	18.88	15 13	16.92	40	25.12	18 05	17.17	7	31.80	18 06
15.86	25	6.29	12 43	17.17	50	12.41	14 24	15.74	16	19.05	18 04	16.63	42	25.53	16 09	17.17	8	31.91	16 06
12.93	26	6.38	13 07	16.58	50	12.49	18 34	16.92	16	19.08	11 02	15.99	42	25.55	13 34	17.17	8	31.94	15 34
16.58	26	6.42	17 46	17.17	51	12.65	10 17	14.63	16	19.08	15 34	14.83	43	25.74	16 27	16.21	9	32.14	18 44
13.27	26	6.55	11 48	16.58	51	12.84	18 46	17.17	17	19.18	16 12	14.95	44	25.94	17 21	15.99	10	32.40	16 12
17.17	27	6.67	18 16	16.58	52	12.92	12 31	17.17	17	19.23	12 17	15.86	44	26.03	14 26	17.17	11	32.76	19 35
16.50	27	6.70	10 22	16.16	52	12.98	19 44	16.46	18	19.47	10 03	17.17	44	26.07	12 05	15.86	11	32.82	17 05
16.92	27	6.85	19 03	13.27	52	13.04	11 30	17.17	19	19.68	16 12	15.78	45	26.24	19 32	17.17	12	32.92	13 08
10.93	28	6.95	14 08	17.17	52	13.09	17 46	17.17	19	19.77	14 09	15.78	45	26.28	16 21	16.84	12	33.01	15 52
15.86	28	6.96	18 25	15.57	53	13.20	13 13	15.95	19	19.79	17 30	16.92	46	26.42	15 02	15.57	13	33.32	13 41
16.29	28	6.98	11 21	17.17	53	13.23	12 53	16.16	20	19.98	14 10	15.86	46	26.45	14 33	17.17	14	33.50	16 01
12.81	29	7.22	18 39	17.17	54	13.40	10 24	13.66	20	20.00	12 31	15.86	46	26.61	18 01	12.74	14	33.52	12 48
14.44	29	7.35	12 29	17.17	54	13.50	17 54	17.17	20	20.04	14 06	16.29	47	26.63	17 43	16.71	35 16	74.08	9 27
16.84	30	7.52	14 36	15.99	54	13.53	12 50	15.31	21	20.17	14 50	16.63	47	26.65	15 26	16.92	16	74.11	7 38
16.92	31	7.77	10 06	15.78	54	13.58	18 08	17.17	21	20.32	12 32	13.85	47	26.66	10 49	17.08	17	74.13	3 33
17.17	31	7.77	13 50	13.85	55	13.75	13 20	16.16	21	20.37	18 26	16.92	47	26.70	10 05	17.08	17	74.32	3 41
16.79	31	7.83	16 50	15.31	55	13.81	10 44	17.17	22	20.41	13 19	16.63	49	27.16	11 40	16.25	18	74.50	9 32
17.17	32	7.96	12 49	16.21	56	13.88	15 41	16.42	24	20.99	12 32	17.17	49	27.23	16 42	14.75	20	75.01	7 21
16.92	32	8.01	15 55	17.17	56	13.92	14 46	17.08	24	21.08	12 54	17.17	49	27.26	15 46	17 17	21	75.26	8 08
17.17	33	8.19	14 30	16.92	56	14.11	14 40	16.21	24	21.12	17 40	15.65	50	27.41	17 02	13.46	22	75.52	0 53
15.74	33	8.23	13 53	16.21	57	14.18	19 54	11.13	25	21.15	17 12	16.58	50	27.55	15 23	17.17	22	75.62	0 42
17.17	35	8.64	10 22	15.57	57	14.31	12 34	16.58	25	21.21	18 10	16.16	53	28.24	16 33	17.17	23	75.81	2 29
17.17	35	8.67	10 01	14.75	58	14.59	17 05	17.17	25	21.29	13 22	17.08	53	28.28	16 53	13.66	23	75.81	3 24
17.17	35	8.79	14 44	17.17	38 0	14.97	14 33	15.86	26	21.45	13 15	16.63	53	28.31	18 17	17.17	23	75.86	0 15
16.16	36	9.08	15 58	17.17	1	15.13	16 20	16.21	27	21.79	11 05	16.63	53	28.34	14 18	16.63	24	75.91	1 50
13.85	37	9.33	13 53	13.85	1	15.19	13 03	16.08	27	21.84	10 57	17.17	53	28.35	12 59	16.84	24	76.01	1 59
16.84	37	9.34	16 13	14.91	2	15.39	15 28	17.08	28	21.97	16 53	10.03	53	28.37	10 31	15.31	25	76.13	6 56
14.32	38	9.47	18 07	15.61	2	15.40	10 06	17.17	29	22.25	17 52	16.63	54	28.46	12 48	17.17	25	76.20	5 47
17.17	39	9.80	15 41	12.63	2	15.54	12 18	16.58	30	22.39	11 00	16.16	55	28.77	11 24	16.84	25	76.26	7 41
14.24	39	9.83	12 42	17.08	4	15.90	15 40	16.92	30	22.42	14 31	16.08	56	28.88	12 05	16.84	25	76.32	6 03
14.24	41	10.20	17 45	17.08	4	16.02	17 26	16.16	30	22.51	10 32	11.81	56	29.11	19 58	15.15	27	76.64	3 20
16.71	41	10.22	14 12	16.29	4	16.10	13 46	15.78	30	22.55	17 27	13.27	57	29.16	11 58	13.85	27	76.68	8 53
16.67	42	10.44	10 16	16.92	4	16.12	14 42	14.24	31	22.75	19 09	16.08	57	29.32	19 02	16.71	28	76.88	6 20
16.63	42	10.51	16 50	15.31	5	16.15	15 39	14.05	31	22.87	13 46	16.92	57	29.34	11 47	16.42	28	76.89	3 48

25 prec. + 77 sec. + 5′ 19″.

501—550				551—600				601—650				651—700				701—750			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.99	35 28	76.91	3 29	16.50	35 50	82.47	5 48	16.04	36 13	88.27	9 45	16.16	36 32	92.94	1 18	16.58	36 54	98.56	8 49
16.92	28	77.03	4 32	14.17	50	82.59	1 06	17.17	13	88.28	1 06	16.50	33	93.22	1 29	13.54	54	98.56	9 42
17.08	28	77.08	7 17	15.99	51	82.63	4 01	16.21	14	88.40	9 14	17.17	33	93.22	4 32	14.75	54	98.60	3 52
16.79	30	77.42	2 04	12.93	51	82.69	2 46	16.79	14	88.54	0 01	10.52	34	93.54	7 20	12.47	55	98.72	2 15
16.37	30	77.49	0 01	15.86	51	82.73	4 00	16.63	15	88.64	5 40	17.17	35	93.85	8 21	15.74	55	98.85	0 20
16.08	30	77.59	5 30	17.17	51	82.87	1 12	16.08	15	88.69	0 00	16.16	35	93.85	9 08	16.08	56	99.09	1 51
16.63	30	77.60	4 57	15.65	52	83.00	6 00	17.17	15	88.84	2 08	15.31	36	94.03	3 06	15.65	57	99.26	8 38
16.63	31	77.64	3 57	17.17	52	83.06	1 10	16.84	16	88.95	2 13	15.52	37	94.23	7 59	16.84	58	99.48	1 58
15.11	31	77.70	2 07	15.15	52	83.07	1 46	16.58	16	89.07	1 49	15.95	37	94.31	3 59	16.79	58	99.54	7 24
17.17	32	77.92	0 01	17.17	53	83.37	0 15	17.17	17	89.34	3 11	17.17	37	94.35	8 23	16.63	58	99.61	1 41
14.44	32	78.08	6 50	15.57	54	83.44	8 00	16.58	18	89.51	9 58	17.08	37	94.37	5 15	16.71	59	99.69	3 29
16.79	34	78.41	2 38	16.16	54	83.57	3 39	16.21	18	89.62	6 05	16.08	38	94.50	6 07	11.55	59	99.69	5 30
14.91	34	78.54	1 51	17.17	55	83.66	4 07	16.42	19	89.86	0 38	16.58	39	94.71	5 50	14.52	59	99.70	4 55
14.56	35	78.74	1 16	17.17	55	83.80	2 12	15.86	20	89.88	3 07	15.44	40	94.89	7 10	16.58	59	99.77	7 48
16.37	36	78.90	1 03	17.17	56	83.96	1 39	16.16	20	90.00	2 09	16.08	40	95.01	0 12	17.17	37 0	99.93	5 57
16.37	36	79.00	2 53	16.79	56	83.96	2 40	16.63	21	90.14	8 08	16.63	40	95.07	5 14	15.74	0	99.98	6 06
17.08	36	79.00	6 24	14.91	56	84.04	9 44	14.83	21	90.15	3 03	16.84	41	95.22	3 01	17.17	0	99.99	5 07
16.71	37	79.28	6 04	15.65	57	84.28	1 18	16.58	21	90.17	3 13	15.99	41	95.25	1 27	15.78	0	0.00	3 46
16.16	37	79.29	4 19	17.17	57	84.28	6 58	17.17	21	90.18	0 39	16.08	41	95.25	8 51	17.17	0	0.09	4 06
17.08	37	79.36	4 39	17.17	58	84.54	2 15	16.79	21	90.18	5 54	16.92	42	95.39	4 29	17.08	0	0.11	1 28
15.99	38	79.44	6 44	16.29	58	84.59	7 19	16.63	21	90.35	2 50	15.57	42	95.40	2 48	14.63	2	0.38	4 55
15.48	38	79.45	9 49	15.65	59	84.69	3 01	16.08	22	90.42	4 14	15.23	42	95.49	9 38	16.71	2	0.47	2 31
17.17	38	79.47	0 13	16.04	59	84.77	9 51	15.36	22	90.42	8 45	16.08	42	95.58	4 21	17.08	2	0.49	3 57
16.42	38	79.59	7 21	15.36	59	84.87	2 29	17.17	23	90.71	3 08	15.86	42	95.60	4 31	17.17	2	0.50	1 19
16.92	38	79.60	2 34	15.03	36 0	85.08	1 57	16.16	23	90.82	2 36	14.17	44	95.91	0 09	16.58	3	0.65	0 32
14.24	39	79.76	9 11	16.92	1	85.13	1 36	16.04	23	90.85	0 28	17.08	44	96.08	5 46	12.85	3	0.65	9 41
16.42	39	79.82	8 31	17.17	2	85.55	2 09	14.63	25	91.26	3 57	15.99	45	96.21	2 43	16.92	3	0.80	3 40
17.08	39	79.86	7 25	14.91	3	85.66	3 18	15.86	26	91.52	6 44	15.03	45	96.21	8 58	13.66	4	0.88	2 56
16.21	40	79.88	3 51	14.75	3	85.87	3 21	15.95	26	91.61	6 31	16.37	45	96.28	5 28	13.27	4	0.89	7 57
15.11	40	80.03	6 21	15.15	4	86.04	6 46	16.50	27	91.67	3 45	12.77	45	96.30	5 53	15.15	4	0.89	5 38
15.86	40	80.09	3 19	15.44	4	86.09	1 31	17.17	27	91.71	3 56	16.16	45	96.35	7 11	17.17	5	1.37	6 43
17.17	41	80.16	1 18	17.17	5	86.33	7 59	15.99	27	91.79	6 40	16.37	46	96.58	7 56	17.08	6	1.50	0 24
17.17	41	80.21	3 53	14.83	6	86.44	9 40	16.37	28	91.89	4 11	15.99	47	96.70	2 02	15.57	6	1.54	4 05
15.15	41	80.29	9 09	15.57	7	86.68	1 50	16.84	28	91.90	8 08	13.66	48	97.02	4 41	16.79	6	1.54	5 13
14.91	41	80.32	9 31	16.16	7	86.68	2 17	16.08	28	91.99	8 51	16.84	49	97.16	7 07	16.37	6	1.54	9 31
16.63	42	80.58	1 50	17.08	7	86.82	7 08	9.85	28	92.02	4 49	16.50	50	97.59	4 21	16.63	7	1.85	8 27
14.56	42	80.58	6 59	15.95	7	86.84	1 38	15.95	28	92.11	0 28	15.65	50	97.61	3 02	15.86	11	2.68	0 21
16.50	44	80.98	5 10	16.71	7	86.87	5 19	17.17	28	92.11	3 21	17.17	50	97.61	7 20	12.81	11	2.69	1 43
15.65	44	81.00	7 44	16.71	8	86.98	1 35	16.42	29	92.15	3 26	16.79	51	97.76	9 25	15.65	12	3.11	0 05
17.17	44	81.09	7 41	16.84	8	87.00	0 47	10.75	29	92.16	1 12	17.17	52	97.91	0 57	16.08	13	3.35	8 51
16.42	45	81.25	7 19	12.81	9	87.22	7 44	15.36	29	92.19	3 57	15.65	52	97.91	1 41	17.08	13	3.35	7 59
17.17	45	81.32	6 18	16.29	11	87.73	4 08	17.17	29	92.29	3 22	17.17	52	97.92	8 59	17.17	14	3.39	2 22
15.23	45	81.34	0 34	16.92	11	87.75	2 27	17.08	29	92.30	4 38	16.63	52	97.95	0 09	16.21	14	3.59	7 11
16.71	46	81.55	4 08	16.08	11	87.76	7 00	15.57	29	92.32	4 57	16.84	52	97.99	4 01	16.79	15	3.79	1 12
16.21	47	81.69	2 48	12.42	11	87.82	4 52	16.29	30	92.44	5 43	17.17	53	98.33	0 00	14.17	16	3.93	8 01
16.63	47	81.71	7 01	14.24	11	87.82	9 20	16.50	31	92.76	0 03	17.00	53	98.35	0 25	17.17	16	4.04	6 08
17.17	47	81.77	0 48	17.17	11	87.85	0 35	14.83	31	92.80	8 16	15.78	54	98.43	2 53	16.84	17	4.13	4 58
15.48	48	81.88	0 16	16.58	11	87.85	0 09	14.63	31	92.81	5 11	16.16	54	98.45	0 39	16.08	17	4.17	7 32
17.17	48	81.91	5 44	15.23	12	88.04	4 40	14.91	32	92.89	9 12	15.44	54	98.45	3 12	13.66	17	4.33	8 42
16.58	49	82.26	3 13	15.95	12	88.10	9 32	17.08	32	92.91	7 28	14.24	54	98.53	4 44	17.17	18	4.43	7 06

25 prec. + 77 sec. + 5′ 16″.

751—800				801—850				851—900				901—950				951—1000			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′‾″		m s	′	′‾″		m s	′	′‾″		m s	′	′‾″		m s	′	′ ″
17.17	37 18	4.47	4 48	16.84	37 38	9.40	5 28	17.17	38 0	14.92	1 05	16.29	38 30	22.57	8 50	17.17	38 57	29.17	−1 28
16.88	18	4.49	9 54	16.88	38	9.48	9 45	16.88	0	14.94	9 33	16.12	31	22.78	0 09	14.67	57	29.23	0 07
16.84	19	4.64	9 23	16.29	38	9.56	7 31	16.5	1	15.24	3 06	16.42	31	22.84	8 00	16.84	58	29.47	2 46
17.17	19	4.66	7 39	17.17	39	9.64	6 38	14.52	2	15.56	0 02	15.78	32	22.96	7 50	17.08	58	29.55	0 56
13.27	19	4.77	3 05	11.88	39	9.85	5 22	16.58	2	15.62	3 54	13.07	32	23.03	6 42	16.92	59	29.66	2 18
16.63	19	4.80	2 19	15.65	39	9.85	4 43	17.08	3	15.68	9 56	15.44	34	23.45	0 17	16.08	59	29.82	4 40
16.63	20	5.05	5 56	16.63	40	10.00	4 07	16.37	3	15.81	4 21	14.24	34	23.56	1 14	15.99	39 0	29.93	4 37
16.63	20	5.06	2 50	14.83	42	10.46	5 26	17.17	4	16.04	4 18	15.65	35	23.80	2 25	17.17	0	29.93	5 58
17.08	21	5.19	0 19	15.74	42	10.50	7 50	17.08	4	16.09	3 49	16.71	36	23.88	5 18	17.08	0	30.06	4 04
16.42	22	5.38	1 09	11.51	43	10.73	4 24	17.17	5	16.14	6 10	16.92	36	23.91	3 05	15.95	1	30.22	4 26
15.36	22	5.41	6 33	17.08	43	10.74	4 56	17.17	6	16.43	2 10	16.50	36	23.91	8 56	14.44	1	30.36	1 50
15.78	22	5.44	7 21	17.17	44	11.10	2 27	16.92	7	16.78	3 57	16.58	36	23.94	7 51	16.84	1	30.37	9 28
15.23	22	5.52	9 29	16.79	45	11.14	5 08	15.99	8	17.12	1 24	15.86	36	24.00	1 29	12.01	1	30.37	0 18
15.31	24	5.91	9 05	15.11	45	11.15	1 03	15.11	9	17.33	2 16	10.28	37	24.17	4 24	15.86	2	30.58	5 12
15.57	24	5.94	8 46	15.23	45	11.17	3 01	16.71	10	17.51	9 19	17.17	37	24.28	9 06	15.23	4	31.03	7 19
16.50	24	5.98	7 55	17.17	46	11.50	3 31	17.17	12	17.91	2 24	15.52	38	24.56	5 55	15.86	4	31.05	7 47
15.57	24	6.07	0 34	16.08	46	11.52	1 00	15.15	13	18.28	6 25	16.92	39	24.86	6 40	10.93	5	31.14	8 20
17.17	26	6.43	7 29	16.29	46	11.58	2 48	15.74	14	18.45	9 19	15.31	40	24.92	1 34	16.08	5	31.33	3 53
12.59	27	6.65	5 23	15.99	46	11.58	7 35	16.29	14	18.54	7 03	15.99	40	25.03	1 37	17.17	5	31.35	2 01
15.86	27	6.72	0 31	15.99	47	11.72	7 33	13.97	15	18.75	0 32	16.50	41	25.16	9 54	15.99	6	31.43	4 50
17.17	27	6.76	3 12	17.17	47	11.83	3 14	11.32	15	18.76	9 44	17.17	41	25.28	3 11	17.17	6	31.43	4 09
15.31	27	6.84	3 40	12.15	48	11.91	6 27	15.99	16	18.89	5 28	17.17	41	25.28	2 50	17.17	6	31.56	6 57
16.42	27	6.84	6 51	14.05	48	12.00	8 35	16.92	16	19.01	2 47	17.17	41	25.37	2 13	16.84	6	31.57	9 27
15.44	28	6.95	7 30	15.15	48	12.02	6 08	16.79	16	19.06	6 19	16.63	42	25.59	1 09	14.44	8	31.95	8 28
17.17	28	7.04	0 35	16.75	48	12.10	0 33	17.17	17	19.15	0 38	15.11	43	25.75	8 46	15.07	8	31.99	0 24
17.17	29	7.19	4 10	17.08	50	12.47	7 17	17.17	17	19.16	0 49	17.17	43	25.85	7 42	14.52	8	32.01	6 37
16.63	29	7.30	0 55	17.08	51	12.68	8 10	17.17	18	19.42	3 25	16.71	44	25.89	0 37	17.17	9	32.31	3 27
16.08	30	7.39	0 22	13.66	51	12.81	9 05	17.17	18	19.42	1 19	17.17	44	26.12	8 25	15.44	9	32.37	7 05
16.58	30	7.62	8 30	17.17	51	12.85	3 48	16.21	18	19.61	1 43	17.08	45	26.14	1 20	17.17	10	32.46	3 32
15.44	31	7.73	7 30	17.17	52	12.98	9 29	16.08	19	19.72	2 41	17.17	46	26.46	1 42	17.17	10	32.46	9 26
17.17	31	7.78	5 45	17.08	52	13.08	3 33	17.17	19	19.77	7 47	17.17	46	26.49	0 57	12.33	10	32.62	6 10
16.63	32	7.94	4 09	17.17	53	13.29	0 19	11.81	19	19.82	3 02	15.65	46	26.49	9 47	17.17	11	32.66	3 13
16.21	32	7.94	6 45	16.08	53	13.32	6 42	17.17	19	19.83	0 05	16.42	46	26.51	6 21	16.08	11	32.72	9 41
16.12	32	7.96	0 27	14.05	54	13.40	7 23	17.17	20	20.04	0 48	13.85	47	26.72	6 24	17.17	11	32.78	1 34
16.63	32	7.97	3 17	16.79	54	13.56	1 28	17.17	21	20.20	6 25	17.08	48	26.88	3 38	17.17	11	32.83	5 19
15.31	33	8.15	3 43	16.42	54	13.60	6 51	16.08	21	20.23	3 05	16.42	48	26.92	9 52	13.27	12	32.89	8 00
16.92	33	8.18	4 12	16.92	55	13.64	0 48	16.63	22	20.61	0 31	13.66	48	26.96	8 55	16.71	12	32.90	5 54
17.17	33	8.21	7 19	16.42	55	13.74	1 53	16.37	24	20.93	1 05	15.27	48	27.03	9 33	17.17	12	32.91	7 50
15.57	34	8.40	7 50	16 63	55	13.75	3 47	13.66	24	21.03	7 03	16.37	48	27.08	7 27	16.08	13	33.13	3 01
17.17	35	8.64	1 35	17.17	56	13.89	8 59	13.85	25	21.37	4 33	17.17	49	27.19	0 04	16.79	13	33.14	2 17
16.50	35	8.69	8 40	16.42	56	14.04	3 40	15.95	26	21.51	6 30	13.46	49	27.21	1 22	16.84	14	33.41	4 57
16.71	35	8.85	3 44	14.44	57	14.21	1 27	16.21	26	21.52	6 38	17.17	49	27.27	3 52	16.58	14	33.52	0 10
17.17	36	8.90	1 30	12.80	57	14.28	8 21	16.58	26	21.53	8 03	17.08	49	27.37	5 13	16.29	14	33.53	5 29
15.03	36	8.94	8 26	17.08	58	14.40	1 48	17.17	26	21.58	4 16	14.44	50	27.39	4 12	13.66	14	33.62	4 27
16.50	36	9.03	6 05	15.86	58	14.43	0 01	15.65	27	21.63	1 15	15.23	51	27.65	5 04	17.17	15	33.71	8 27
17.17	37	9.13	0 45	17.17	58	14.43	6 24	16.63	27	21.85	9 37	17.17	52	28.11	2 34	15.65	16	33.93	−4 29
17.17	37	9.16	3 36	16.16	58	14.55	4 55	15.23	28	21.88	4 20	15.99	53	28.15	7 38	15.36	35 17	74.17	+7 47
13.85	37	9.21	1 08	16.50	59	14.64	2 09	16.42	29	22.13	9 50	15.65	54	28.55	4 07	17.17	18	74.40	2 22
17.17	37	9.23	7 53	15.31	59	14.80	7 54	17.17	30	22.39	8 32	17.17	55	28.78	2 01	17.08	18	74.60	3 51
14.95	37	9.34	1 33	16.92	38 0	14.89	9 01	17.17	30	22.52	8 05	17.17	56	28.98	0 31	17.17	18	74.61	+2 25

25 prec. + 77 sec. + 5′ 19″.

1001—1050				1051—1100				1101—1150				1151—1200				1201—1250			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.71	35 19	74.66	0 01	13.07	35 42	80.48	9 36	17.17	36 7	86.71	0 36	15.95	36 29	92.29	1 04	15.52	36 58	99.46	6 11
17.17	19	74.78	8 15	17.17	42	80.54	9 20	17.17	7	86.86	9 22	11.81	31	92.72	2 06	17.17	58	99.50	0 48
17.08	19	74.78	3 59	16.92	43	80.67	7 04	17.08	8	87.04	3 00	13.19	31	92.86	0 23	16.71	58	99.60	3 10
12.72	19	74.82	1 33	17.08	43	80.79	2 08	15.11	8	87.07	6 02	15.44	32	92.96	0 27	17.17	59	99.65	7 41
15.03	20	74.94	3 33	17.08	44	80.89	1 10	16.92	9	87.15	9 40	16.37	32	92.98	8 35	15.78	59	99.72	5 10
15.03	20	75.04	3 23	17.17	45	81.14	8 13	16.92	9	87.18	5 08	17.17	32	93.12	0 40	16.92	59	99.82	5 49
15.82	21	75.18	0 03	16.92	45	81.23	7 07	16.79	9	87.22	9 37	14.91	33	93.23	1 08	16.37	59	99.83	1 40
13.66	21	75.22	9 18	16.50	45	81.26	1 06	17.17	9	87.36	4 34	17.17	33	93.33	2 26	16.37	37 0	0.08	8 16
17.08	21	75.33	9 32	16.29	46	81.40	2 34	16.08	12	87.89	8 13	16.08	34	93.46	7 15	16.92	0	0.10	1 55
15.15	22	75.38	7 36	15.23	46	81.54	1 11	15.69	12	87.95	0 27	16.92	34	93.56	9 06	13.46	1	0.13	6 55
16.58	22	75.44	8 21	16.08	47	81.65	7 53	16.92	12	88.07	5 06	15.44	34	93.60	1 00	15.23	1	0.16	2 26
16.71	23	75.67	9 14	15.99	47	81.76	2 01	16.29	15	88.69	1 35	16.50	35	93.87	1 15	12.38	1	0.31	1 41
16.29	23	75.73	3 23	15.86	48	81.90	8 58	16.84	15	88.72	8 35	16.37	36	93.93	4 07	15.74	2	0.55	6 21
16.79	23	75.79	4 27	16.42	48	81.93	6 53	12.12	15	88.78	6 46	14.83	36	94.03	9 44	12.15	3	0.65	2 22
17.17	25	76.25	4 31	16.08	48	81.98	1 26	15.31	16	88.97	5 06	16.71	36	94.11	2 20	16.63	3	0.66	5 00
17.08	26	76.43	8 05	11.89	48	82.07	8 38	15.31	16	89.02	5 24	17.17	37	94.38	7 28	17.08	3	0.75	7 34
17.17	26	76.49	5 00	16.08	49	82.19	9 42	17.17	17	89.14	9 26	12.93	38	94.53	1 41	16.08	3	0.79	2 14
15.36	27	76.69	4 43	15.23	49	82.20	6 45	15.65	17	89.21	0 36	17.17	39	94.76	7 16	15.65	3	0.80	2 09
15.44	27	76.85	7 35	17.17	50	82.47	9 44	16.37	17	89.25	2 28	16.08	40	94.92	6 12	17.17	5	1.22	3 46
13.27	28	76.95	8 58	17.17	52	82.90	1 09	16.16	17	89.36	1 33	16.79	40	95.00	2 02	17.08	5	1.22	4 32
16.79	28	77.08	1 49	17.17	52	82.97	9 50	15.99	18	89.45	3 15	15.23	40	95.05	6 23	13.27	5	1.30	2 10
17.17	29	77.13	2 32	16.92	52	83.01	7 52	16.37	18	89.49	8 36	17.17	40	95.12	3 25	15.74	6	1.42	6 53
15.44	29	77.15	4 51	16.63	52	83.05	1 43	15.78	18	89.55	4 17	16.37	41	95.35	7 18	17.17	6	1.42	9 43
13.85	29	77.30	3 59	16.08	52	83.09	8 53	14.91	19	89.70	0 48	15.78	42	95.50	0 44	16.71	7	1.85	0 58
17.17	30	77.49	2 35	14.40	53	83.13	0 14	15.78	19	89.76	3 09	15.95	43	95.63	4 38	16.84	8	1.96	6 23
16.58	30	77.50	5 52	14.83	53	83.14	6 09	16.71	20	90.01	9 27	13.85	43	95.63	5 02	16.37	8	1.99	4 29
14.75	30	77.59	2 27	16.63	53	83.23	1 52	16.71	20	90.16	0 52	15.74	44	95.90	5 32	15.31	8	2.03	7 40
13.85	31	77.64	9 43	16.42	53	83.25	2 07	16.08	21	90.18	7 21	14.63	44	96.12	3 41	13.85	8	2.07	6 59
17.17	31	77.72	5 21	17.17	53	83.30	9 38	15.03	21	90.35	5 42	15.99	45	96.16	6 19	15.48	9	2.22	0 26
16.42	31	77.73	7 31	17.17	54	83.44	9 50	15.74	22	90.41	2 26	16.42	45	96.17	8 15	17.00	9	2.34	9 25
13.27	32	78.00	3 35	13.85	55	83.67	4 54	16.21	22	90.46	8 23	12.34	47	96.63	4 11	16.50	10	2.38	0 36
16.79	32	78.11	4 17	16.84	55	83.70	7 19	16.42	22	90.47	8 05	16.84	47	96.65	8 06	17.08	10	2.47	4 18
17.17	33	78.17	0 45	16.79	55	83.84	1 57	17.08	22	90.57	7 06	15.57	47	96.66	4 58	16.25	10	2.59	9 23
16.92	33	78.31	5 47	16.58	57	84.29	8 16	16.63	23	90.63	1 49	17.17	50	97.54	5 16	15.23	11	2.66	1 16
16.71	33	78.32	2 19	15.23	57	84.34	9 31	15.95	23	90.65	4 40	17.08	51	97.69	9 22	15.52	13	3.15	8 43
17.17	33	78.37	7 05	15.52	58	84.53	2 59	16.63	23	90.72	3 06	16.92	51	97.79	6 57	16.79	13	3.37	3 27
17.17	34	78.51	4 21	16.92	59	84.63	2 16	16.58	23	90.87	8 03	16.50	52	97.92	0 16	13.66	13	3.37	0 39
16.92	34	78.61	3 15	17.17	36 0	85.08	7 25	13.07	24	90.92	1 27	16.37	52	97.95	9 21	15.86	14	3.42	8 06
15.23	36	78.89	1 25	14.05	0	85.11	9 07	13.66	24	90.98	6 30	16.16	53	98.13	5 57	16.92	14	3.50	3 16
16.29	36	79.04	3 57	17.17	2	85.42	4 05	17.17	24	91.00	7 43	15.57	53	98.15	3 26	15.65	14	3.60	4 53
16.79	37	79.23	7 57	16.08	2	85.45	0 47	16.92	24	91.09	6 26	15.86	53	98.23	4 46	16.37	15	3.79	2 35
15.57	37	79.27	3 02	17.08	2	85.58	4 05	15.95	25	91.27	8 10	14.05	53	98.32	5 42	9.17*	17	4.18	5 17
14.44	38	79.52	4 32	17.17	3	85.79	6 12	17.17	26	91.57	1 49	14.91	55	98.72	4 24	15.78	17	4.19	2 46
15.99	39	79.73	3 56	16.58	3	85.82	2 12	16.58	27	91.69	6 21	14.75	55	98.83	6 58	16.58	17	4.37	2 06
14.71	39	79.80	0 18	14.36	4	85.97	3 28	15.95	27	91.79	8 47	14.83	56	98.90	1 04	14.17	18	4.41	3 42
16.92	39	79.81	8 29	15.40	5	86.31	9 34	15.95	28	91.95	5 25	17.17	57	99.14	0 36	16.84	18	4.60	8 35
13.85	41	80.14	6 58	15.36	6	86.39	6 33	17.08	28	92.04	5 56	15.23	57	99.15	8 27	17.17	19	4.67	8 04
16.58	41	80.29	4 02	17.08	6	86.52	9 28	17.17	29	92.13	0 07	17.17	57	99.32	7 16	17.17	19	4.82	6 03
17.17	41	80.31	2 05	15.78	6	86.62	9 11	15.78	29	92.15	4 46	15.78	57	99.32	5 00	14.56	20	4.97	2 56
16.92	41	80.34	7 43	15.15	7	86.66	2 02	16.92	29	92.20	0 34	14.44	58	99.44	6 51	15.31	20	5.00	6 43

25 prec. + 77 sec. + 5′ 16″.

1251—1300				1301—1350				1351—1400				1401—1450				1451—1500			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
17.17	37 21	5.13	8 23	17.08	37 47	11.64	3 58	16.58	38 15	18.78	5 17	17.17	38 39	24.80	6 41	17.17	39 8	32.04	5 25
16.92	21	5.34	4 33	17.17	47	11.68	8 26	16.67	15	18.85	0 32	17.08	40	24.89	3 00	16.92	8	32.11	2 48
11.54	21	5.36	3 10	16.79	49	12.27	7 47	17.17	16	18.94	0 50	17.08	40	25.10	4 59	16.71	9	32.13	2 37
15.44	22	5.39	6 51	16.50	49	12.37	8 27	17.17	17	19.22	5 28	16.37	41	25.17	6 16	15.15	10	32.40	6 50
16.42	23	5.72	7 26	16.08	50	12.46	6 51	17.08	19	19.63	6 56	16.67	41	25.23	9 55	14.24	10	32.53	4 30
16.08	23	5.80	1 05	15.11	50	12.52	2 39	12.81	19	19.64	1 42	16.63	42	25.56	4 29	17.17	11	32.64	6 36
16.21	24	5.90	6 17	15.31	51	12.84	1 16	16.79	19	19.71	1 17	13.66	44	26.02	6 37	14.75	11	32.67	8 48
11.30	24	5.90	2 56	16.92	53	13.13	9 56	14.05	21	20.15	7 00	14.83	45	26.19	6 37	16.50	12	32.92	0 49
16.37	24	5.91	7 34	16.08	53	13.14	4 20	15.78	22	20.49	2 10	17.08	45	26.22	9 23	16.21	12	32.97	2 17
16.84	24	6.01	0 58	16.92	53	13.31	2 28	16.79	22	20.52	2 43	17.17	45	26.30	5 16	14.44	14	33.41	7 53
15.03	25	6.34	2 34	17.17	54	13.45	0 14	14.75	23	20.63	8 11	15.99	45	26.35	2 43	14.44	14	33.55	8 07
16.92	26	6.38	3 24	16.71	54	13.46	6 14	16.79	23	20.66	6 49	13.66	46	26.49	8 42	14.05	14	33.56	1 44
15.74	26	6.42	1 20	16.79	54	13.48	4 34	15.23	23	20.73	6 30	17.17	46	26.57	2 39	17.08	15	33.78	9 46
15.65	26	6.43	2 29	16.84	54	13.53	3 40	16.42	23	20.80	2 30	15.44	48	26.88	8 38	16.54	15	33.84	0 26
15.03	26	6.59	6 03	13.27	55	13.71	2 22	16.37	24	20.88	1 55	13.85	48	26.99	2 31	11.63	16	33.88	8 50
17.17	27	6.76	4 48	15.03	56	13.91	8 18	17.17	24	21.09	3 35	16.21	48	27.11	4 31	16.29	35 16	74.01	19 34
17.17	27	6.78	4 12	14.56	56	13.97	2 48	16.92	25	21.14	4 44	14.71	48	27.11	1 15	15.23	16	74.03	13 58
16.37	28	6.99	9 44	16.37	56	14.12	7 18	17.17	25	21.34	7 55	16.16	49	27.13	9 42	16.92	16	74.07	16 50
17.17	29	7.19	2 43	16.08	57	14.20	7 49	16.71	25	21.34	4 17	16.92	49	27.23	3 27	15.15	17	74.28	10 39
15.36	31	7.71	8 57	14.44	58	14.38	2 10	8.46*	26	21.42	6 35	16.79	50	27.40	6 52	15.65	18	74.49	14 29
16.58	31	7.75	4 09	17.17	59	14.66	5 07	14.95	26	21.44	3 34	16.50	50	27.41	8 56	15.52	19	74.65	17 50
15.86	32	7.88	5 51	16.71	59	14.70	5 47	15.99	26	21.49	1 23	15.86	50	27.41	9 07	16.58	19	74.66	16 50
12.81	32	7.98	2 21	14.95	59	14.73	3 36	17.17	26	21.55	8 36	17.17	50	27.56	2 56	13.46	20	75.02	13 19
17.17	32	8.08	7 21	16.12	59	14.78	0 05	16.08	27	21.63	6 04	15.11	51	27.64	3 27	15.95	21	75.28	15 04
14.75	33	8.13	6 52	15.57	59	14.85	6 33	16.58	27	21.70	3 05	15.74	52	28.11	5 55	11.31	22	75.42	12 06
17.17	33	8.30	9 04	16.63	38 0	14.97	7 35	15.74	27	21.74	4 41	15.15	53	28.23	3 49	17.17	22	75.48	18 35
15.74	33	8.34	9 26	16.92	1	15.20	2 36	15.78	27	21.80	2 10	17.17	54	28.42	7 36	17.17	23	75.71	13 28
17.08	33	8.37	5 51	16.84	1	15.24	2 03	12.81	27	21.87	6 50	16.79	54	28.55	7 00	17.08	23	75.72	10 18
14.05	34	8.44	7 47	14.24	1	15.31	1 49	17.17	28	21.95	5 16	14.24	54	28.56	2 51	16.58	23	75.76	18 13
16.92	34	8.51	0 25	16.92	1	15.34	5 24	14.36	28	21.95	7 22	17.17	54	28.59	1 11	16.63	23	75.81	13 58
15.36	34	8.59	7 04	16.71	1	15.37	9 49	17.17	28	22.02	4 34	16.79	56	28.89	3 34	14.95	24	76.11	12 32
16.08	35	8.75	2 54	15.15	3	15.77	3 49	14.83	29	22.33	7 16	13.27	56	29.09	0 32	17.08	25	76.30	11 51
17.17	36	8.90	1 42	10.15	5	16.24	4 46	16.42	30	22.38	5 26	16.71	57	29.33	8 56	16.37	25	76.31	15 30
17.17	37	9.21	7 48	16.16	5	16.28	3 00	16.08	30	22.45	7 56	17.17	58	29.42	8 47	13.85	28	76.92	18 07
17.17	38	9.43	7 20	16.92	6	16.56	8 35	16.16	30	22.51	9 06	15.44	58	29.62	6 44	15.78	28	77.02	11 25
14.09	38	9.50	0 10	16.42	7	16.80	8 38	17.08	31	22.64	0 15	12.93	59	29.87	4 22	15.95	29	77.21	15 45
14.44	39	9.73	4 14	17.17	9	17.13	7 36	13.27	34	23.40	8 31	15.15	39 0	29.89	7 21	13.66	29	77.22	13 34
14.05	39	9.75	2 13	16.21	9	17.15	4 22	17.17	34	23.42	2 44	16.16	0	30.09	7 49	16.37	29	77.28	11 29
16.71	39	9.81	0 53	15.44	9	17.31	4 36	15.44	34	23.51	8 00	15.74	1	30.14	3 39	15.78	30	77.55	12 55
17.17	41	10.21	1 50	17.17	9	17.31	0 45	17.17	34	23.59	2 14	13.66	2	30.54	2 52	17.08	31	77.72	18 09
14.36	41	10.33	6 11	16.67	10	17.46	0 14	13.66	35	23.75	5 03	17.17	3	30.67	3 29	16.42	31	77.78	19 21
14.91	42	10.50	1 58	16.92	11	17.77	8 20	15.23	35	23.83	7 44	13.66	4	30.99	8 50	15.99	32	77.90	11 08
17.17	43	10.67	0 42	16.92	11	17.82	4 34	17.17	36	23.93	7 49	17.08	4	31.05	7 45	16.16	32	77.95	14 54
15.99	43	10.79	8 51	15.95	12	18.01	6 24	16.58	36	24.04	3 21	17.08	5	31.16	2 17	15.86	32	78.05	11 23
17.17	44	11.03	3 26	17.17	12	18.01	3 37	16.08	36	24.04	2 01	15.65	5	31.21	6 54	16.63	32	78.11	15 02
15.65	44	11.07	7 57	16.08	13	18.22	2 18	15.78	36	24.08	6 16	15.99	5	31.35	2 46	17.17	33	78.29	15 52
17.17	44	11.09	0 44	16.50	13	18.24	1 38	17.08	37	24.13	5 28	15.31	6	31.48	3 17	15.31	33	78.33	18 13
17.17	45	11.32	1 12	13.85	13	18.26	7 07	16.92	37	24.18	1 27	13.07	6	31.54	4 25	15.95	35	78.77	11 39
15.99	45	11.34	4 18	17.17	14	18.52	6 16	13.66	37	24.27	5 04	15.74	6	31.56	2 48	16.42	35	78.84	10 30
16.50	47	11.63	3 10	17.17	15	18.73	4 52	17.08	39	24.65	0 51	15.57	8	32.03	7 12	12.05	36	79.04	17 38

25 prec. + 77 sec. + 5′ 19″.

1501—1550				1551—1600				1601—1650				1651—1700				1701—1750			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
17.17	35 37	79.21	18 34	16.71	35 58	84.38	15 31	17.17	36 23	90.66	17 12	14.63	36 49	97.29	13 46	15.23	37 15	3.69	17 40
15.74	37	79.28	15 09	15.15	58	84.40	16 30	15.86	23	90.67	18 59	16.84	49	97.30	11 11	16.08	15	3.80	14 29
14.63	37	79.36	19 46	15.86	58	84.47	17 40	16.88	23	90.85	19 32	14.44	49	97.31	18 28	17.17	16	3.88	13 56
17.08	37	79.36	11 17	17.17	58	84.59	19 45	13.43	24	91.03	10 19	17.17	50	97.46	17 30	16.16	16	3.98	18 42
14.56	38	79.39	17 45	14.56	59	84.67	15 02	17.17	25	91.36	17 38	13.85	50	97.61	13 34	12.80	16	3.99	14 17
16.58	38	79.60	11 10	17.17	59	84.82	18 06	16.79	26	91.46	13 06	17.17	51	97.75	17 31	16.50	16	4.04	18 06
17.00	40	79.90	19 28	16.21	36 0	84.90	12 01	15.15	26	91.56	12 19	13.19	52	98.02	19 45	14.75	16	4.04	17 03
11.25	40	79.99	13 41	13.46	0	84.91	12 27	16.71	26	91.58	11 59	16.25	53	98.16	19 41	15.57	17	4.28	16 33
16.08	41	80.16	18 00	17.17	1	85.20	18 25	16.71	26	91.60	19 32	16.84	53	98.27	19 02	15.03	17	4.28	12 39
16.37	41	80.19	10 32	15.65	1	85.36	12 03	15.99	27	91.73	19 12	13.07	53	98.29	12 41	17.17	17	4.33	17 41
16.42	42	80.41	12 50	15.95	2	85.47	15 18	15.36	27	91.80	11 16	16.75	54	98.56	19 43	15.15	18	4.55	16 28
17.17	42	80.54	16 50	15.99	2	85.61	17 02	16.16	28	91.92	12 03	16.50	55	98.64	18 53	17.17	18	4.56	15 35
17.08	42	80.56	19 12	16.84	3	85.73	11 15	16.37	28	92.11	11 53	15.74	55	98.71	17 20	13.27	18	4.61	12 46
14.75	42	80.59	18 42	17.08	3	85.75	10 18	17.17	29	92.14	11 06	16.50	55	98.80	15 28	14.05	19	4.68	11 03
16.21	43	80.76	15 35	16.84	3	85.81	18 54	16.71	30	92.55	13 52	12.40	55	98.81	16 40	17.08	19	4.69	16 55
16.92	43	80.76	12 53	16.21	3	85.87	13 10	16.71	30	92.60	15 06	13.93	56	99.01	19 53	17.17	19	4.70	16 25
17.17	43	80.84	13 30	14.56	3	85.87	17 25	16.79	31	92.73	11 58	17.17	57	99.13	19 07	16.08	19	4.70	17 30
16.63	44	81.11	15 08	16.71	4	85.96	12 01	17.17	32	92.94	13 22	14.83	57	99.14	13 24	16.21	19	4.82	19 44
15.23	45	81.36	13 43	17.08	4	86.01	11 12	12.66	33	93.33	11 02	16.25	57	99.26	19 56	12.60	20	4.95	17 27
17.08	46	81.39	19 37	14.05	4	86.02	17 28	16.79	35	93.72	11 59	16.92	57	99.27	12 40	17.17	20	4.96	13 17
17.17	46	81.43	18 01	17.17	5	86.34	10 32	13.27	35	93.79	10 27	16.84	57	99.31	11 17	14.52	20	5.11	11 40
16.79	46	81.62	18 21	16.71	6	86.55	10 42	16.84	36	93.92	13 06	13.85	58	99.39	12 17	16.92	20	5.11	12 32
17.17	47	81.66	16 05	16.58	6	86.61	18 51	17.17	36	93.92	12 15	17.17	58	99.41	13 05	17.17	21	5.25	12 52
17.17	47	81.68	15 50	15.99	7	86.87	10 39	17.17	36	94.00	14 38	15.23	58	99.58	11 09	15.03	22	5.55	11 25
14.71	47	81.87	14 11	14.63	8	87.01	19 06	15.36	37	94.33	14 46	14.95	58	99.59	12 34	13.66	22	5.57	13 59
15.52	48	81.88	16 20	16.42	8	87.07	13 12	16.79	38	94.41	10 25	14.13	58	99.61	15 08	15.23	24	5.99	14 16
17.17	48	81.89	11 02	17.17	10	87.43	18 23	14.63	38	94.43	14 10	14.95	58	99.62	19 02	16.71	24	6.03	13 35
17.17	49	82.14	18 59	16.84	10	87.52	15 19	17.17	38	94.61	14 41	17.17	58	99.62	17 25	14.24	24	6.11	13 22
15.27	49	82.19	10 05	15.44	10	87.61	10 14	16.71	39	94.78	14 15	15.11	37 0	99.92	16 33	17.17	25	6.13	14 00
17.08	49	82.34	19 46	16.08	11	87.78	14 49	17.17	39	94.79	11 04	16.71	0	99.93	17 02	16.71	25	6.22	15 58
14.71	50	82.40	10 01	16.37	12	88.00	17 51	16.92	40	94.89	12 42	17.17	0	0.03	11 10	16.63	25	6.26	15 40
15.57	50	82.50	16 09	14.83	12	88.05	16 43	17.17	40	95.01	13 48	17.17	1	0.22	16 38	16.79	27	6.64	18 48
15.44	50	82.53	19 01	16.71	13	88.23	14 27	17.17	42	95.39	12 14	15.44	1	0.33	15 22	15.52	27	6.79	17 42
15.86	50	82.62	15 04	13.46	13	88.29	17 12	17.17	42	95.51	12 24	17.17	2	0.58	12 40	16.92	28	7.06	17 21
15.86	51	82.81	16 33	16.54	13	88.30	10 22	16.16	43	95.66	11 57	17.17	2	0.61	13 34	17.17	29	7.34	12 52
16.42	51	82.84	16 44	17.17	13	88.31	18 15	14.05	43	95.86	10 42	15.78	3	0.68	12 53	13.85	30	7.40	13 53
16.29	52	83.00	14 34	16.92	13	88.33	10 18	15.31	44	95.91	10 36	14.44	5	1.36	18 58	16.50	30	7.58	14 17
16.21	53	83.25	15 25	17.17	14	88.38	18 45	16.37	44	95.93	17 45	17.08	6	1.58	15 21	16.58	31	7.81	16 37
13.54	53	83.33	10 25	17.17	14	88.55	12 51	16.79	44	95.97	12 33	14.32	7	1.66	12 08	17.17	31	7.85	13 04
15.86	53	83.35	13 09	16.84	15	88.64	13 56	17.17	44	96.02	14 21	15.78	10	2.55	10 10	15.44	32	7.88	19 02
16.42	54	83.40	12 52	17.17	15	88.75	13 36	12.88	44	96.04	17 37	15.36	12	3.07	12 11	15.23	32	7.98	13 14
17.08	54	83.46	19 59	17.17	16	88.90	10 19	17.17	44	96.10	16 56	14.71	13	3.22	14 00	15.78	33	8.27	15 04
16.37	56	83.96	17 31	13.85	16	89.02	12 17	17.17	46	96.38	10 18	15.95	13	3.36	17 03	17.08	33	8.36	13 50
16.16	56	84.00	18 49	16.50	19	89.83	18 32	17.17	46	96.55	16 20	15.11	14	3.38	15 53	16.58	33	8.36	13 26
12.65	56	84.08	12 47	14.63	19	89.85	12 59	17.17	47	96.67	14 39	16.29	14	3.43	14 55	14.63	33	8.37	17 05
16.84	56	84.09	16 35	16.16	20	89.92	13 04	15.11	47	96.82	13 24	12.80	14	3.44	11 26	12.81	34	8.40	19 07
14.83	56	84.09	12 08	14.75	22	90.45	13 15	15.57	48	96.90	11 04	17.00	14	3.55	19 31	16.58	34	8.43	11 30
16.92	57	84.18	11 07	17.17	22	90.46	14 20	15.95	48	97.08	17 50	16.58	14	3.58	13 34	13.66	34	8.54	16 45
16.50	57	84.26	16 54	17.17	22	90.48	17 52	13.85	49	97.13	11 00	16.42	14	3.61	17 45	16.63	34	8.61	15 40
14.56	57	84.31	18 00	13.58	22	90.62	10 11	17.17	49	97.23	16 22	14.56	15	3.64	13 50	16.08	35	8.87	17 34

25 prec. + 77 sec. + 5′ 16″.

1751—1800				1801—1850				1851—1900				1901—1950				1951—2000			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
17.17	37 36	9.00	19 08	15.95	37 58	14.55	10 33	16.71	38 24	20.93	18 59	15.78	38 53	28.20	18 12	15.52	39 13	33.29	15 23
16.37	36	9.05	15 57	12.81	58	14.58	15 58	16.71	24	21.04	19 13	17.08	53	28.23	19 39	16.92	13	33.30	14 27
16.29	37	9.23	18 07	16.37	59	14.76	14 16	15.31	25	21.24	17 50	16.58	53	28.26	12 42	15.86	15	33.64	13 21
15.44	37	9.34	16 51	17.17	59	14.85	14 16	14.24	25	21.25	18 36	17.17	54	28.57	12 52	15.52	15	33.87	15 37
15.65	37	9.35	15 26	11.39	59	14.87	11 28	15.99	25	21.28	18 54	16.63	55	28.78	17 17	16.21	16	33.93	12 28
15.31	38	9.39	17 57	17.17	38 0	15.00	12 10	14.67	25	21.34	10 03	14.71	55	28.78	14 28	17.17	35 17	74.21	28 07
16.63	38	9.45	15 00	16.29	0	15.02	10 23	14.83	26	21.51	14 01	16.58	56	28.91	15 14	15.27	17	74.32	20 12
17.17	38	9.45	14 46	17.17	0	15.08	19 13	16.92	26	21.53	17 34	16.63	56	28.97	13 54	16.92	18	74.40	27 07
16.29	39	9.65	11 40	16.42	1	15.19	12 04	17.17	28	22.10	13 13	15.99	56	28.97	13 24	16.92	18	74.50	24 21
16.71	39	9.70	17 32	16.08	2	15.44	14 54	16.63	29	22.35	11 01	16.63	56	29.01	19 10	15.74	18	74.51	20 24
17.17	39	9.71	11 13	16.79	2	15.59	14 43	15.95	30	22.62	17 35	17.17	57	29.22	19 04	17.17	18	74.54	24 31
16.21	39	9.76	17 51	15.99	2	15.61	12 21	17.17	31	22.63	15 58	16.08	57	29.24	15 18	17.17	19	74.71	23 49
15.95	39	9.82	12 00	15.86	3	15.73	15 33	16.71	31	22.78	18 46	14.05	57	29.26	12 45	14.63	19	74.77	27 29
17.17	40	10.02	15 06	15.65	3	15.85	15 43	17.17	33	23.28	11 57	16.50	58	29.40	16 40	17.17	19	74.85	29 13
14.32	40	10.05	13 30	15.15	4	15.91	12 40	16.84	33	23.31	19 42	15.95	58	29.41	18 01	15.44	20	75.06	21 01
16.84	40	10.06	15 22	15.65	5	16.18	11 10	17.17	34	23.46	12 28	17.17	39 0	29.92	18 43	17.17	20	75.08	26 03
16.79	41	10.26	17 29	16.50	5	16.34	16 19	14.63	34	23.50	12 59	14.63	0	30.05	12 35	16.58	20	75.09	23 29
17.08	42	10.38	19 27	17.17	5	16.34	14 41	16.71	34	23.60	18 53	15.95	1	30.19	11 02	15.74	20	75.10	21 38
16.37	42	10.38	18 40	16.16	7	16.73	18 54	17.17	35	23.83	17 01	15.23	1	30.23	13 13	10.94	21	75.17	29 05
16.92	43	10.77	17 58	16.63	7	16.81	14 16	16.29	36	23.92	15 02	14.24	2	30.39	17 45	14.83	21	75.29	20 45
13.46	43	10.84	14 58	15.03	8	16.97	19 00	13.07	36	24.02	10 02	16.79	2	30.47	16 31	15.95	22	75.39	29 17
16.79	43	10.85	16 49	16.84	9	17.20	19 15	11.16	37	24.17	15 14	15.57	3	30.63	10 15	16.84	22	75.55	26 34
16.79	45	11.32	12 32	15.44	9	17.30	16 09	16.21	37	24.26	18 32	17.17	3	30.64	10 32	17.17	22	75.62	25 06
14.83	46	11.58	17 11	16.71	10	17.42	14 03	15.44	38	24.38	16 51	15.57	3	30.76	16 12	17.08	23	75.65	29 18
17.08	47	11.75	15 32	15.95	11	17.70	11 18	13.85	38	24.57	12 25	15.78	4	30.88	18 17	17.08	23	75.78	27 55
13.07	48	11.92	12 47	17.17	12	17.93	16 34	15.36	39	24.78	16 42	16.50	4	30.97	15 40	12.67	24	76.02	23 23
17.08	48	12.09	12 26	17.17	12	18.02	18 32	15.86	40	24.97	14 07	16.71	5	31.28	17 06	14.32	25	76.13	24 31
12.88	49	12.24	16 56	16.37	12	18.12	11 03	15.03	40	25.02	15 55	15.95	5	31.29	10 48	17.17	25	76.17	28 15
15.23	50	12.41	11 05	15.95	13	18.17	16 59	15.99	40	25.11	18 46	14.56	5	31.35	10 13	16.92	25	76.32	20 29
16.92	50	12.48	11 16	17.17	13	18.27	18 52	16.84	41	25.21	17 32	14.95	6	31.50	10 19	17.17	26	76.42	20 35
17.17	51	12.63	14 21	15.65	13	18.28	10 51	16.21	42	25.37	12 22	16.29	7	31.65	16 01	17.17	26	76.60	26 26
17.08	51	12.79	14 07	17.17	14	18.54	19 54	12.23	42	25.52	19 46	17.17	7	31.66	16 34	16.79	27	76.66	29 25
16.63	52	12.92	10 17	16.92	15	18.64	10 53	14.75	43	25.69	15 32	15.74	7	31.76	18 51	16.92	27	76.73	25 27
17.17	52	13.06	18 47	17.08	15	18.65	18 46	16.16	43	25.70	19 22	16.84	7	31.80	14 28	13.27	27	76.80	23 04
16.29	53	13.13	13 25	17.17	15	18.74	10 03	15.69	43	25.73	19 58	16.42	8	31.95	12 34	14 05	28	76.89	28 23
16.21	53	13.21	13 44	14.91	15	18.85	19 10	16.50	43	25.76	13 54	16.12	8	31.99	19 26	15.57	28	76.94	26 07
16.58	53	13.32	16 48	17.17	16	19.10	10 47	17.17	44	25.95	17 03	16.84	9	32.15	10 24	16.63	28	76.95	24 31
15.86	53	13.36	14 24	15.95	17	19.20	17 43	14.56	45	26.23	19 29	17.17	9	32.19	12 56	15.65	28	77.10	23 20
17.17	54	13.38	19 53	16.42	17	19.35	13 11	17.17	46	26.49	15 20	16.92	9	32.32	13 04	15.44	29	77.15	25 01
17.08	54	13.42	14 57	14.63	18	19.49	14 40	14.75	47	26.70	13 36	16.79	9	32.37	18 15	13.46	31	77.64	26 59
15.95	54	13.46	17 53	17.17	18	19.58	14 21	16.63	47	26.75	12 56	15.11	10	32.38	19 04	16.92	31	77.76	26 24
16.92	54	13.61	19 41	15.74	19	19.82	15 00	16.16	47	26.83	11 17	16.08	10	32.50	11 02	16.92	32	77.99	20 22
15.74	55	13.73	11 45	17.17	19	19.83	13 57	17.17	48	26.93	11 50	16.71	11	32.83	18 32	16.50	32	78.11	26 06
12.80	55	13.79	12 33	16.92	20	19.91	13 15	17.17	49	27.23	14 37	14.56	11	32.86	12 05	15.99	33	78.17	20 10
17.17	55	13.87	18 59	17.17	20	19.99	12 39	15.95	49	27.33	16 14	17.17	12	32.89	10 54	14.63	33	78.23	26 49
16.50	55	13.87	13 48	14.83	21	20.28	12 22	16.79	49	27.37	15 54	15.44	12	32.93	10 42	17.17	34	78.55	29 21
16.92	57	14.29	12 04	13.66	22	20.39	10 02	17.17	51	27.74	10 54	15.11	12	32.94	13 31	15.57	34	78.56	27 15
17.17	57	14.36	16 34	15.74	22	20.40	17 32	17.08	51	27.78	12 21	15.52	13	33.14	11 44	11.35	36	78.94	28 50
17.08	58	14.44	18 11	16.37	23	20.66	19 44	16.79	51	27.82	12 38	16.58	13	33.15	15 30	13.07	36	78.97	29 40
16.84	58	14.55	17 53	16.16	23	20.71	11 36	16.58	52	28.05	10 54	14.36	13	33.27	19 00	14.75	36	79.05	26 44

25 prec. + 77 sec. + 5′ 19″.

Area 112.

2001—2050				2051—2100				2101—2150				2151—2200				2201—2250			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.50	35 39	79.69	26 43	16.92	36 2	85.56	22 48	16.63	36 29	92.18	20 46	16.79	36 55	98.66	28 48	17.17	37 27	6.67	20 57
12.02	39	79.77	20 22	15.65	3	85.66	21 10	14.75	29	92.24	23 19	16.63	55	98.69	24 39	17.17	27	6.76	20 26
16.79	39	79.82	22 48	17.17	4	85.89	23 53	13.85	31	92.73	21 40	17.17	55	98.72	25 17	17.17	27	6.80	27 36
9.37	40	79.88	23 29	16.08	4	85.94	21 36	15.74	31	92.83	20 55	16.50	55	98.77	25 42	17.17	29	7.15	25 54
17.17	40	80.06	26 56	15.95	4	86.03	24 22	15.31	32	92.96	23 45	11.42	56	98.88	21 31	16.84	29	7.16	25 50
15.95	42	80.52	23 04	15.15	5	86.17	26 20	16.29	32	93.06	26 18	16.84	56	98.97	23 12	16.42	29	7.23	28 41
17.17	42	80.59	22 36	14.75	5	86.20	23 01	15.86	33	93.15	24 46	17.17	56	99.02	24 22	12.35	29	7.29	23 23
16.71	43	80.67	24 59	17.17	7	86.77	26 46	17.18	34	93.54	21 48	16.71	57	99.16	23 17	16.88	29	7.37	20 19
17.17	43	80.87	20 37	17.08	8	86.92	22 06	15.86	34	93.61	22 50	15.78	57	99.27	20 28	16.63	30	7.40	28 31
16.79	44	80.93	25 28	15.78	9	87.37	27 53	14.83	35	93.79	21 40	15.99	58	99.56	27 11	16.79	30	7.50	23 32
17.17	45	81.20	21 56	16.71	10	87.49	25 55	16.16	36	93.90	25 26	17.17	59	99.64	26 18	15.99	32	7.90	22 24
16.37	46	81.47	20 36	15.57	11	87.67	24 00	17.08	36	94.03	23 53	17.17	59	99.77	23 23	17.17	32	7.98	23 33
16.50	47	81.65	27 21	16.29	12	87.92	21 15	16.21	37	94.21	25 35	13.27	59	99.78	22 51	15.99	32	8.10	25 19
14.83	47	81.66	24 15	15.99	12	87.96	24 29	16.16	37	94.30	20 25	17.17	37 1	0.28	21 11	16.58	33	8.26	26 47
15.65	47	81.86	24 06	17.17	12	87.97	23 13	16.50	38	94.40	23 58	17.17	3	0.67	24 15	16.42	33	8.27	20 38
15.99	48	81.89	26 37	16.92	12	88.01	23 29	17.17	38	94.46	23 17	13.27	3	0.84	24 22	15.99	33	8.32	28 48
17.17	48	81.95	27 06	12.19	12	88.06	28 21	16.50	38	94.56	26 04	16.92	3	0.87	21 26	16.08	33	8.37	22 22
16.92	49	82.14	27 19	14.71	12	88.11	26 57	15.99	39	94.64	23 48	16.50	5	1.23	25 26	16.29	34	8.51	28 45
15.11	49	82.18	23 06	16.21	14	88.46	23 38	17.17	39	94.74	26 27	14.44	5	1.25	25 10	14.44	35	8.79	25 52
15.74	49	82.33	29 05	12.52	14	88.55	28 03	15.31	39	94.74	22 14	14.83	8	1.89	20 37	16.79	36	8.88	23 43
15.11	50	82.60	26 15	14.71	15	88.67	24 40	15.52	39	94.79	24 53	15.95	8	2.00	23 39	16.21	36	8.96	22 04
15.36	51	82.73	25 06	16.42	15	88.80	28 55	16.71	39	94.79	24 11	16.92	8	2.11	25 09	16.63	36	9.02	29 33
17.17	51	82.77	20 49	14.05	17	89.14	26 01	16.92	40	94.94	22 41	16.21	9	2.27	20 33	13.66	36	9.06	20 18
17.17	52	83.07	25 43	17.08	17	89.18	26 33	16.42	41	95.33	28 17	15.57	10	2.41	24 35	11.56	37	9.32	27 34
14.44	54	83.38	27 00	14.83	17	89.21	29 15	17.17	41	95.36	22 02	15.74	10	2.56	20 10	17.17	38	9.46	21 20
15.52	54	83.54	27 45	16.63	17	89.25	24 56	16.79	42	95.50	22 27	15.15	11	2.72	26 40	17.08	38	9.52	26 56
15.31	55	83.83	21 30	17.17	18	89.39	28 37	16.42	43	95.72	21 36	13.93	12	2.89	29 34	15.65	38	9.55	22 42
17.08	55	83.87	21 51	12.81	18	89.43	21 32	15.11	44	96.01	22 50	15.36	12	3.08	21 10	16.08	38	9.58	25 49
17.17	56	83.90	26 05	16.88	18	89.51	29 48	17.17	45	96.19	29 54	15.57	15	3.66	20 42	16.42	39	9.63	21 11
12.40	56	83.96	25 14	13.07	18	89.52	26 21	14.63	45	96.31	23 54	12.13	15	3.73	29 41	14.05	39	9.72	24 15
16.42	56	84.01	26 20	17.17	19	89.64	23 53	16.21	46	96.46	27 45	15.86	16	3.91	26 27	16.37	39	9.78	27 28
17.08	56	84.07	20 42	17.17	19	89.68	26 39	16.25	46	96.57	29 57	14.17	16	4.12	27 11	12.80	39	9.82	25 33
16.92	56	84.11	27 21	16.42	19	89.72	25 49	16.50	47	96.64	25 04	15.99	17	4.25	24 17	15.44	40	9.93	22 08
16.29	57	84.36	25 11	15.36	19	89.81	27 49	16.08	47	96.76	29 08	16.71	17	4.36	24 17	17.08	40	9.99	20 15
16.84	57	84.37	22 29	15.95	20	90.07	24 08	15.65	48	96.88	20 11	17.17	18	4.41	26 02	16.79	40	10.04	24 53
15.57	58	84.39	25 29	17.17	21	90.18	28 20	16.92	48	97.04	26 08	17.08	18	4.43	29 21	14.91	40	10.10	21 20
16.84	58	84.41	27 23	12.88	22	90.53	28 44	16.92	49	97.21	20 25	14.05	18	4.49	26 51	17.17	40	10.11	21 37
12.66	58	84.57	24 33	14.05	22	90.58	27 44	15.31	49	97.27	27 56	15.15	18	4.51	23 34	16.92	40	10.12	29 18
15.95	59	84.74	25 57	16.63	24	90.98	27 46	16.63	49	97.31	23 09	16.58	18	4.59	25 36	14.36	41	10.13	28 28
16.37	59	84.81	29 11	17.17	25	91.13	29 43	11.64	49	97.32	24 31	14.24	19	4.70	23 46	14.99	41	10.36	20 09
16.50	59	84.81	24 15	16.58	25	91.25	22 57	17.17	49	97.33	26 31	16.79	20	5.00	25 22	17.17	42	10.41	24 25
17.08	59	84.85	20 11	16.63	25	91.29	24 56	15.74	50	97.54	27 15	16.63	20	5.09	25 38	15.11	43	10.87	27 31
16.37	36 0	84.88	22 09	13.27	25	91.29	21 33	17.17	50	97.57	28 48	16.37	22	5.56	23 20	15.65	44	10.96	26 12
15.23	0	84.91	29 00	14.24 :	26	91.42	21 02	16.21	51	97.63	24 02	17.17	22	5.56	23 48	16.88	44	11.11	29 42
15.31	0	85.07	20 26	15.44	26	91.46	24 27	16.92	51	97.73	25 42	16.79	23	5.73	26 58	15.57	44	11.11	24 29
15.23	1	85.15	22 15	15.78	26	91.56	27 57	17.17	51	97.83	26 35	17.17	23	5.78	24 02	17.17	45	11.31	21 51
12.88	1	85.27	23 04	16.63	27	91.67	26 49	17.17	52	97.88	21 01	13.85	24	5.88	23 54	14.24	46	11.46	26 50
17.17	2	85.38	21 28	15.78	27	91.70	22 50	16.58	52	98.03	28 36	15.78	25	6.31	26 28	16.58	46	11.46	25 48
17.17	2	85.40	27 28	17.17	29	92.15	26 27	15.65	52	98.10	26 26	15.78	25	6.33	26 02	15.15	46	11.52	26 16
13.27	2	85.43	28 21	16.79	29	92.17	26 57	13.27	52	98.11	29 12	15.11	26	6.48	22 26	17.17	47	11.67	29 28

25 prec. + 77 sec. + 5′ 17″.

2251—2300				2301—2350				2351—2400				2401—2450				2451—2500			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.44	37 47	11.75	23 23	15.31	38 9	17.36	28 21	17.08	38 38	24.61	28 48	17.17	39 7	31.73	21 05	16.79	35 32	77.92	34 10
17.08	47	11.87	26 37	17.08	10	17.48	25 00	15.15	38	24.61	23 07	16.71	7	31.74	21 51	14.95	33	78.13	35 57
17.17	48	11.95	29 29	14.91	11	17.73	25 56	17.17	39	24.81	29 30	17.17	7	31.85	23 38	15.65	33	78.16	34 45
15.36	48	11.96	21 07	16.84	11	17.75	26 10	17.17	40	24.96	20 56	16.63	8	31.95	26 30	13.85	33	78.19	32 17
17.17	48	12.01	22 03	15.99	11	17.83	25 18	17.17	40	25.05	23 19	12.00	8	32.02	22 58	15.86	33	78.30	35 43
13.85	48	12.02	22 46	15.57	12	17.94	25 10	17.17	40	25.08	24 11	15.52	9	32.31	29 34	15.23	34	78.43	35 24
16.71	49	12.30	24 53	16.58	12	17.95	29 55	15.44	42	25.49	23 17	15.74	10	32.55	28 29	16.92	34	78.56	33 24
14.17	50	12.56	27 11	11.00	12	18.06	27 21	16.42	42	25.56	28 41	16.92	11	32.73	20 39	17.17	34	78.58	30 49
15.78	51	12.71	26 19	16.58	12	18.07	28 39	15.78	43	25.72	27 39	16.88	12	33.01	29 28	15.15	35	78.69	32 09
14.91	51	12.84	23 56	17.17	13	18.15	22 12	15.78	44	25.99	28 44	16.84	12	33.11	27 07	15.95	35	78.79	36 43
16.29	52	13.11	29 44	15.44	13	18.25	25 05	16.84	44	26.06	29 18	13.07	13	33.13	29 15	17.08	36	79.09	38 04
15.57	53	13.26	28 37	17.17	14	18.43	26 55	16.92	45	26.24	29 10	15.99	13	33.14	20 57	17.17	37	79.14	39 03
17.17	53	13.27	26 41	15.36	14	18.56	24 05	16.16	47	26.67	24 41	16.08	13	33.22	22 13	15.36	37	79.18	31 56
17.17	54	13.40	20 12	16.92	15	18.83	29 09	12.72	47	26.67	22 30	16.08	13	33.34	24 10	14.44	37	79.22	36 07
15.03	54	13.42	20 49	16.92	16	18.90	28 03	13.85	47	26.70	29 06	15.99	14	33.46	20 50	17.17	37	79.23	36 47
17.17	54	13.61	24 35	15.65	16	19.09	26 04	16.63	47	26.76	26 20	17.00	14	33.60	29 41	16.71	37	79.35	30 39
15.65	55	13.66	27 59	15.23	16	19.12	23 17	15.44	48	26.88	29 22	17.08	16	33.91	20 16	16.71	38	79.57	33 44
17.17	55	13.73	22 12	12.28	17	19.25	23 52	16.63	48	26.91	27 19	16.63	35 16	74.08	38 18	15.65 :	39	79.64	30 43
17.17	55	13.77	28 40	17.08	20	19.90	24 45	16.08	48	27.09	25 43	16.58	18	74.51	34 24	9.27	40	79.90	35 05
15.03	55	13.80	24 06	17.17	21	20.06	24 32	13.07	49	27.19	25 47	15.74	19	74.66	37 20	11.96	40	79.99	32 18
17.17	56	13.95	21 54	15.65	23	20.70	23 49	17.08	49	27.20	20 50	14.95	19	74.69	33 42	15.44	40	80.02	38 04
17.17	56	13.97	27 07	15.95	23	20.85	26 20	14.56	49	27.21	28 32	16.92	20	74.97	31 00	16.08	42	80.57	39 03
17.08	56	14.00	20 15	17.17	24	20.89	24 19	16.58	49	27.26	26 14	16.79	21	75.37	39 07	16.58	42	80.58	33 22
15.99	57	14.24	20 16	17.08	24	21.11	23 23	15.95	50	27.59	24 48	14.91	22	75.41	32 46	13.46	43	80.85	31 18
17.08	58	14.58	24 44	11.48	25	21.20	21 30	17.17	51	27.79	26 09	16.50	22	75.43	34 56	15.57	43	80.87	33 56
16.42	59	14.71	22 14	17.08	25	21.21	25 41	17.17	51	27.80	29 47	14.91	22	75.54	30 38	17.17	43	80.87	31 54
17.17	38 0	14.91	22 07	17.17	26	21.53	28 07	17.17	51	27.84	21 51	13.85	23	75.66	39 47	17.17	44	80.97	31 50
15.86	0	15.02	21 27	14.52	26	21.57	27 51	17.17	52	27.88	24 52	15.15	23	75.66	39 11	10.63	44	80.97	30 26
17.17	1	15.20	22 48	17.17	27	21.63	21 52	15.11	52	27.96	25 27	16.84	24	75.93	34 50	15.57	45	81.16	31 26
14.95	1	15.26	26 20	15.65	27	21.73	26 48	12.52	53	28.15	21 33	17.17	24	75.95	39 10	14.63	45	81.32	38 39
16.08	1	15.26	25 38	17.08	27	21.86	27 58	17.08	53	28.34	25 01	16.63	25	76.24	37 54	16.08	47	81.69	31 18
16.50	3	15.66	23 23	14.05	28	21.99	26 05	16.42	54	28.38	20 20	14.91	25	76.28	34 48	17.17	47	81.72	37 19
16.21	3	15.76	28 10	16.92	30	22.62	29 09	15.44	55	28.63	27 47	15.99	25	76.36	36 54	15.52	48	81.99	35 47
16.71	3	15.76	28 48	15.99	31	22.69	21 34	9.65	55	28.81	20 29	15.95	26	76.53	37 00	15.57	48	82.01	37 22
14.44	4	15.93	21 17	16.79	32	22.89	21 53	15.44	56	28.98	23 10	12.88	26	76.58	34 35	15.11	48	82.11	31 42
17.17	4	15.96	29 32	16.79	33	23.20	23 38	17.08	56	29.00	29 37	16.29	26	76.62	34 46	16.58	50	82.43	36 31
17.08	5	16.23	24 51	16.92	34	23.49	24 07	16.84	57	29.20	27 23	12.88	27	76.65	37 18	16.42	50	82.52	39 12
11.18	5	16.23	21 51	15.99	34	23.52	26 39	10.14	58	29.42	22 27	17.17	27	76.74	35 51	15.86	50	82.53	38 53
17.17	5	16.26	25 09	16.63	34	23.60	24 33	16.92	59	29.77	21 45	17.17	27	76.78	35 33	16.16	51	82.69	35 44
13.46	6	16.38	21 38	14.05	35	23.63	22 23	17.17	39 0	30.02	25 07	15.78	27	76.86	31 26	15.65	52	82.90	30 54
17.17	6	16.40	28 02	16.84	35	23.64	20 41	14.83	0	30.12	29 27	10.48	28	76.93	37 16	17.17	52	83.02	35 53
16.50	6	16.42	22 37	16.92	35	23.83	23 27	16.92	1	30.15	20 37	17.17	28	77.11	34 12	10.85	53	83.22	37 02
17.17	6	16.57	26 59	16.08	36	23.93	28 00	11.74	1	30.26	22 03	14.91	28	77.12	32 41	17.17	54	83.38	35 34
17.17	7	16.87	28 44	16.71	36	24.03	23 13	15.86	1	30.36	22 39	17.17	29	77.24	32 14	17.17	55	83.87	34 04
16.21	8	16.94	21 59	13.85	37	24.20	22 15	16.16	2	30.57	27 39	17.17	29	77.33	32 02	17.17	56	83.88	31 18
10.11	9	17.13	24 09	15.11	37	24.30	24 06	16.92	3	30.69	24 04	17.08	31	77.68	34 14	16.16	56	83.96	34 35
17.17	9	17.23	28 43	16.84	37	24.36	22 29	16.92	4	31.10	28 11	16.29	31	77.79	35 45	15.78	56	83.97	33 52
12.93	9	17.24	24 54	14.44	38	24.52	28 07	16.63	5	31.21	27 07	16.21	31	77.82	30 02	17.17	56	84.04	33 10
17.17	9	17.27	26 17	15.65	38	24.52	21 04	15.44	6	31.43	29 11	15.36	32	77.91	35 31	14.05	56	84.06	32 49
16.92	9	17.35	23 41	16.08	38	24.60	28 24	15.65	6	31.46	26 42	13.27	32	77.92	38 10	14.75	57	84.17	36 00

25 prec. + 77 sec. + 5′ 18″.

2501—2550				2551—2600				2601—2650				2651—2700				2701—2750			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.11	35 57	84.26	39 11	16.79	36 29	92.15	36 29	14.63	36 57	99.29	33 48	17.17	37 22	5.56	34 37	16.21	37 49	12.16	33 47
15.23	57	84.29	39 17	15.99	29	92.22	35 41	15.03	57	99.32	35 56	17.17	23	5.65	37 52	16.50	50	12.60	30 58
17.17	57	84.36	32 49	16.08	29	92.34	36 42	15.57	58	99.40	35 24	17.17	23	5.86	39 44	16.21	51	12.64	34 35
17.17	57	84.37	34 13	16.92	30	92.38	37 04	12.23	59	99.72	33 49	14.44	24	5.90	36 58	15.95	51	12.80	38 46
15.78	58	84.53	31 31	14.91	30	92.38	37 34	13.85	59	99.78	32 08	16.71	24	5.93	32 42	15.31	52	12.88	39 26
14.05	59	84.79	36 19	16.08	30	92.43	32 56	16.42	59	99.87	33 30	16.21	24	6.05	39 02	17.17	53	13.22	31 45
17.17	36 0	84.96	35 14	17.17	30	92.53	38 53	16.42	37 0	99.98	32 00	17.08	25	6.21	39 14	17.17	53	13.32	37 39
16.42	1	85.18	36 33	17.17	30	92.55	39 35	17.17	0	0.03	39 05	13.66	25	6.26	32 40	13.66	53	13.37	39 41
16.84	1	85.23	32 53	11.18	30	92.60	34 02	17.08	0	0.12	36 44	12.03	25	6.27	38 21	17.08	54	13.48	35 15
13.27	1	85.37	34 19	13.07	30	92.61	31 09	15.86	1	0.23	31 23	15.74	27	6.75	31 39	17.17	56	13.94	36 21
17.17	2	85.59	34 10	17.17	31	92.84	34 34	16.50	2	0.43	31 36	15.57	27	6.78	35 07	12.88	56	14.05	36 50
15.36	3	85.76	38 08	15.15	32	92.92	35 35	16.63	2	0.49	34 34	17.17	27	6.87	35 09	11.30	57	14.22	38 33
17.08	4	86.09	36 07	17.17	32	93.07	36 39	16.58	2	0.50	39 44	17.17	28	6.95	31 53	13.46	59	14.72	35 50
14.91	4	86.09	39 11	14.83	33	93.34	35 06	17.17	2	0.51	34 51	14.71	29	7.21	31 02	17.08	38 0	14.94	39 21
16.92	5	86.16	31 53	13.85	34	93.46	37 39	14.63	2	0.61	34 32	15.74	29	7.36	31 55	17.17	0	15.00	30 41
14.63	6	86.50	37 34	17.17	34	93.50	32 33	15.99	3	0.83	38 56	17.17	31	7.68	34 19	15.23	2	15.55	37 53
15.86	6	86.54	32 21	16.42	35	93.65	38 23	17.08	4	1.00	39 53	17.08	31	7.85	37 00	13.85	3	15.73	34 22
17.17	6	86.58	32 25	16.63	36	93.93	38 11	16.29	4	1.00	36 03	16.71	32	7.89	39 15	16.71	3	15.79	36 56
15.52	7	86.75	36 35	15.86	36	94.00	30 43	17.08	4	1.08	37 56	14.24	32	7.93	30 35	16.21	3	15.84	31 02
17.17	7	86.85	31 05	15.57	36	94.03	35 03	17.17	5	1.14	34 02	15.31	32	8.04	31 42	16.92	3	15.86	36 54
16.16	8	86.88	36 51	12.80	36	94.06	30 09	14.83	5	1.35	38 35	15.44	33	8.14	34 17	17.17	4	16.03	32 09
13.27	9	87.16	39 19	16.16	37	94.23	35 14	16.71	6	1.41	36 09	17.17	33	8.18	36 53	16.08	4	16.06	36 00
16.08	10	87.39	34 23	16.29	38	94.39	35 32	17.17	6	1.46	35 50	17.17	33	8.34	35 20	15.65	5	16.13	35 26
16.21	10	87.44	32 02	17.17	38	94.55	34 50	17.08	6	1.58	31 00	13.07	33	8.34	34 41	15.74	5	16.16	32 58
15.74	10	87.58	39 03	17.17	39	94.81	31 22	16.92	8	2.09	34 01	17.17	35	8.62	39 18	16.37	5	16.18	33 15
15.31	10	87.61	37 24	12.67	40	95.11	30 25	12.81	11	2.66	35 40	14.36	35	8.69	36 12	15.78	5	16.33	33 25
13.66	11	87.75	31 48	16.08	42	95.41	32 29	11.63	11	2.74	34 27	16.37	35	8.75	33 41	16.37	6	16.44	33 56
15.57	11	87.76	33 44	16.16	42	95.50	35 24	17.17	11	2.80	32 30	16.08	36	9.01	30 04	16.63	6	16.53	35 17
16.79	11	87.83	30 56	15.03	43	95.68	34 20	17.08	11	2.81	30 31	15.03	37	9.23	30 29	15.44	6	16.61	34 59
16.92	12	88.06	33 24	14.05	44	95.94	38 02	16.25	12	2.96	30 09	16.92	38	9.41	38 41	12.41	7	16.67	30 11
15.57	13	88.32	39 42	12.81	45	96.34	36 27	12.33	12	3.00	36 47	17.17	39	9.65	34 48	17.17	7	16.84	37 37
15.57	13	88.33	35 30	14.24	45	96.35	31 48	12.88	12	3.11	31 01	14.75	39	9.72	34 34	16.84	8	16.95	37 18
15.86	14	88.52	32 44	17.17	46	96.53	39 07	16.58	12	3.12	39 20	16.58	39	9.77	35 17	17.17	8	17.12	34 33
15.03	16	89.05	33 49	17.08	46	96.59	31 54	16.42	14	3.51	38 57	17.17	39	9.84	34 23	15.44	9	17.31	37 45
17.17	16	89.07	35 36	11.98	49	97.13	35 03	17.08	14	3.59	30 44	17.08	39	9.85	34 05	17.17	10	17.39	38 57
16.37	19	89.76	33 18	16.21	49	97.17	32 55	16.21	14	3.59	30 10	16.71	39	9.86	39 42	15.74	11	17.79	39 07
17.17	19	89.81	32 11	16.08	50	97.39	31 34	16.58	14	3.61	37 20	13.66	39	9.86	37 51	17.08	11	17.80	33 02
16.79	19	89.83	32 43	16.21	50	97.56	31 58	13.85	15	3.70	33 07	16.63	40	10.07	38 39	15.65	12	18.03	36 47
16.71	20	89.94	37 33	16.63	51	97.64	37 09	16.29	15	3.74	32 54	15.99	40	10.09	39 33	16.08	12	18.09	39 10
17.17	20	90.08	37 57	16.79	51	97.67	33 49	14.05	15	3.77	32 31	17.17	43	10.68	38 37	14.83	13	18.17	38 58
16.92	22	90.43	35 43	17.17	51	97.71	33 43	16.50	16	4.02	37 22	16.92	43	10.75	35 27	15.57	13	18.37	31 56
17.17	23	90.63	31 32	16.58	51	97.82	39 31	17.17	16	4.03	38 02	14.05	44	10.91	37 28	17.08	14	18.38	30 58
17.17	23	90.75	34 55	12.81	52	97.90	35 10	15.95	16	4.09	34 25	15.36	45	11.14	38 18	14.91	14	18.43	32 16
13.46	24	90.91	33 19	16.58	52	98.04	33 47	12.52	17	4.35	30 21	16.63	45	11.14	32 05	14.83	16	18.90	34 07
17.17	24	90.98	38 33	17.17	53	98.13	33 26	15.95	19	4.65	34 44	14.05	45	11.28	35 57	16.58	17	19.13	34 13
16.58	27	91.64	31 07	17.17	54	98.44	38 56	13.66	19	4.84	39 12	15.65	45	11.30	30 07	16.79	17	19.15	34 01
16.58	27	91.68	35 04	16.21	54	98.55	39 51	13.46	20	4.88	35 42	16.16	46	11.54	31 36	16.29	18	19.38	37 32
16.79	27	91.68	30 49	14.75	55	98.82	32 07	15.95	20	5.07	35 54	17.17	47	11.73	37 05	16.37	18	19.56	36 25
16.58	28	92.04	34 18	14.05	56	99.03	30 11	12.88	21	5.37	35 34	17.17	47	11.84	37 27	16.50	19	19.71	36 16
17.17	28	92.05	32 05	14.05	56	99.06	32 00	16.21	21	5.37	39 44	17.17	48	12.05	36 28	12.88	19	19.71	34 01

25 prec. + 76 sec. + 5′ 17″.

20^{h} Area 112. + 0°

2751—2780				2781—2810				2811—2840				2841—2863			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.44	38 19	19.72	31 49	17.17	38 34	23.51	36 54	14.75	38 49	27.28	39 47	17.17	39 5	31.15	36 11
15.86	19	19.73	35 06	14.75	34	23.54	33 37	12.88	49	27.32	37 32	16.16	5	31.35	34 52
17.17	19	19.81	35 50	14.63	35	23.68	33 48	16.08	50	27.39	39 50	10.18	6	31.55	33 44
12.88	20	19.89	39 02	16.37	36	23.88	39 58	14.91	50	27.47	33 33	16.58	6	31.57	34 48
16.21	20	19.96	34 29	15.57	36	24.07	31 54	11.47	50	27.62	33 57	14.63	7	31.64	32 27
17.17	20	19.97	37 55	17.17	36	24.11	37 29	12.45	52	27.89	38 16	17.17	7	31.72	36 55
13.39	20	19.97	30 17	17.17	37	24.34	35 10	17.08	52	27.91	36 49	17.17	8	31.97	33 00
15.95	20	19.99	32 46	17.17	38	24.38	37 29	14.24	52	27.92	30 28	15.99	9	32.19	38 49
16.50	21	20.13	36 21	17.17	38	24.39	34 36	16.50	54	28.44	30 19	16.16	10	32.47	31 07
15.23	22	20.43	35 58	15.31	38	24.50	31 52	16.84	57	29.19	35 35	16.16	10	32.48	32 55
14.56	23	20.65	39 16	16.58	39	24.70	34 25	13.46	57	29.20	39 32	15.95	10	32.61	31 54
17.17	23	20.70	32 25	16.50	39	24.79	35 08	17.08	57	29.21	39 15	16.71	10	32.61	31 32
16.92	24	20.96	37 36	17.17	39	24.79	31 35	14.05	57	29.28	38 55	16.16	11	32.79	36 54
15.99	24	21.07	36 26	13.46	40	24.99	32 30	14.36	58	29.43	32 09	16.84	11	32.84	31 02
14.91	24	21.09	35 56	16.92	41	25.18	36 45	15.57	58	29.56	37 07	13.46	12	32.91	37 49
17.17	25	21.21	33 01	16.84	41	25.27	32 29	16.63	59	29.86	38 50	15.99	12	32.98	31 24
16.63	25	21.22	38 10	14.83	41	25.37	32 33	15.52	39 0	29.94	34 15	17.17	12	33.03	34 47
17.17	26	21.39	31 28	14.71	42	25.39	38 37	15.65	0	30.00	39 00	17.17	12	33.12	35 01
17.17	26	21.50	36 12	15.52	42	25.42	39 06	16.08	0	30.02	32 06	15.95	13	33.17	37 40
16.92	27	21.71	33 16	15.99	42	25.61	37 06	16.16	0	30.06	36 56	17.17	13	33.32	30 38
14.95	27	21.82	34 13	13.07	43	25.77	32 29	16.92	2	30.54	36 39	17.17	14	33.40	30 02
17.17	27	21.84	39 04	16.79	44	26.03	38 40	16.42	2	30.57	37 54	17.17	14	33.62	31 54
17.08	28	22.00	34 20	16.50	46	26.46	32 51	15.11	2	30.58	30 52	17.17	15	33.78	32 18
17.17	28	22.08	36 47	16.71	46	26.58	37 25	17.08	3	30.64	34 58				
15.36	29	22.16	34 33	14.91	47	26.72	34 44	16.84	3	30.70	35 19				
17.17	29	22.18	36 26	16.08	47	26.84	38 25	16.58	3	30.74	35 35				
15.44	30	22.41	34 53	15.99	47	26.87	36 50	16.79	3	30.86	37 26				
16.71	30	22.51	37 43	16.16	47	26.87	33 49	14.83	3	30.86	35 46				
13.46	31	22.66	35 28	16.79	48	26.91	38 55	12.32	4	30.91	31 32				
17.08	33	23.19	33 31	16.29	49	27.15	39 45	12.05	4	30.97	36 01				

25 prec. + 76 sec. + 5′ 20″.

21^{h} Area 113. Centre for 1900: $21^{\mathrm{h}}\,37^{\mathrm{m}}$ 0° 0′. — 0°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.58	35 24	76.03	21 17	10.97	35 41	80.19	23 18	15.48	36 7	86.84	21 00	14.79	36 44	95.99	23 40	14.11	37 7	1.70	28 05
15.86	26	76.45	25 35	14.71	41	80.29	22 21	15.64	8	87.01	26 52	15.18	47	96.80	26 33	15.83	11	2.63	22 48
13.47	26	76.54	22 19	16.10	43	80.82	29 29	15.64	11	87.63	28 15	14.41	50	97.40	26 12	16.19	13	3.16	28 26
14.91	27	76.86	26 16	15.86	45	81.32	23 32	16.19	19	89.84	29 50	15.10	51	97.77	26 12	15.06	14	3.47	23 39
14.52	30	77.46	28 33	16.10	51	82.86	26 37	13.08	21	90.31	27 53	15.29	51	97.81	25 57	14.49	15	3.75	23 18
13.96	32	77.93	29 09	15.94	53	83.38	20 49	10.85	22	90.38	22 32	16.19	52	97.99	24 09	15.94	15	3.78	27 19
16.10	32	77.97	24 39	16.19	59	84.63	23 50	13.84	23	90.70	27 48	13.96	53	98.36	20 30	15.56	22	5.43	29 37
15.86	32	78.01	24 08	14.60	36 2	85.60	28 27	15.29	28	91.91	29 21	16.19	57	99.30	21 59	13.47	25	6.17	23 14
15.56	39	79.80	21 02	15.45	3	85.72	27 28	15.48	32	93.09	29 00	15.75	37 0	0.03	28 29	13.92	27	6.72	23 52
10.76	40	80.04	28 17	15.48	5	86.28	22 46	15.67	43	95.76	29 16	13.84	5	1.15	26 22	13.66	27	6.81	22 25

25 prec. + 77 sec. + 6′ 46″.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	a	x	$y-0'$	Int. magn.	a	x	$y-0'$	Int. magn.	a	x	$y-0'$	Int. magn.	a	x	$y-0'$	Int. magn.	a	x	$y-0'$
	m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "		m s	'	' "
13.84	37 34	8.54	23 41	15.67	39 20	34.91	21 46	16.10	36 59	99.81	13 44	12.23	38 46	26.55	10 43	14.22	36 19	89.74	4 59
14.14	35	8.73	27 30	13.92	35 22	75.41	18 37	16.10	37 1	0.28	13 26	15.45	47	26.70	13 03	15.48	20	89.92	1 28
14.68	37	9.15	24 16	12.00	22	75.50	16 49	14.68	2	0.40	12 14	16.10	49	27.26	11 56	15.45	21	90.14	4 20
14.41	38	9.50	26 06	15.67	25	76.23	19 24	14.68	4	1.04	15 44	16.19	54	28.47	19 50	15.48	26	91.60	2 12
14.98	40	10.01	23 34	13.77	26	76.42	16 13	16.19	8	2.03	13 58	16.19	56	29.02	10 53	15.64	29	92.27	3 36
16.10	43	10.81	25 56	15.10	30	77.50	13 27	11.45	14	3.58	15 10	14.52	58	29.39	14 58	16.19	29	92.34	9 40
15.29	45	11.15	21 59	15.94	31	77.65	11 10	13.28	14	3.60	14 28	15.67	39 1	30.37	15 22	15.67	35	93.85	5 07
16.19	48	12.12	27 09	14.41	33	78.21	17 58	13.39	14	3.61	13 12	14.79	5	31.33	17 26	15.64	36	93.89	8 47
14.22	49	12.31	25 28	13.47	33	78.33	10 43	15.56	16	3.99	10 01	15.64	10	32.41	19 15	12.23	37	94.37	9 41
13.08	50	12.39	28 02	13.66	36	79.01	17 19	15.94	18	4.46	17 53	15.26	10	32.59	10 03	12.68	41	95.25	3 26
15.75	51	12.63	20 29	15.86	37	79.17	18 11	16.19	26	6.58	13 33	11.50	12	33.05	19 06	16.10	42	95.45	9 19
15.56	56	14.04	24 08	16.19	38	79.47	13 26	16.10	27	6.80	19 25	13.09	12	33.06	16 14	16.19	43	95.63	9 21
15.64	58	14.58	24 29	16.19	40	79.96	19 32	14.87	28	7.02	10 36	9.22	14	33.56	19 26	15.29	46	96.44	1 42
13.43	38 0	14.94	20 20	15.10	42	80.59	15 58	14.22	29	7.36	15 17	15.75	15	33.76	11 06	15.06	46	96.46	6 35
12.00	3	15.79	24 20	16.02	43	80.83	19 53	15.75	31	7.68	11 49	15.83	17	34.28	11 15	15.29	46	96.62	9 17
14.52	8	17.06	27 56	15.75×	44	80.95	11 54	12.23	32	8.04	18 27	15.86	18	34.45	18 06	14.71	47	96.75	0 48
14.71	10	17.49	25 06	15.26	47	81.84	19 09	15.06	34	8.41	11 15	16.19	35 21	75.29	7 39	8.5 ¹)	49	97.22	6 35
14.60	16	19.10	22 39	13.66	48	81.91	16 46	14.98	37	9.16	18 36	16.19	25	76.31	5 50	15.64	50	97.42	7 26
15.48	18	19.39	22 16	15.56	49	82.34	14 15	14.68	38	9.44	16 42	13.20	25	76.31	9 51	10.22*	54	98.49	9 37
15.67	18	19.40	21 31	12.54	53	83.23	10 16	14.49	38	9.44	14 56	13.66	26	76.47	5 23	14.60	58	99.59	4 18
15.67	18	19.41	25 50	15.56	53	83.29	13 23	13.47	39	9.63	12 07	12.00	29	77.31	6 12	14.91	37 12	2.87	6 19
14.71	18	19.50	24 07	15.75	54	83.58	15 25	14.91	44	10.96	12 56	15.56	38	79.50	6 47	14.14	13	3.24	6 24
16.19	18	19.56	24 19	12.88	55	83.71	11 33	13.96	44	11.07	10 54	14.41	39	79.75	3 52	15.79	18	4.54	9 54
14.49	19	19.80	24 47	15.06	56	84.07	19 05	16.19	46	11.53	15 06	15.56	41	80.33	3 39	8.76*	20	4.92	0 36
9.38	21	20.30	24 18	15.29	59	84.75	14 34	14.87	48	11.91	16 01	14.68	41	80.33	1 58	14.98	20	5.08	7 03
14.60	22	20.58	23 10	12.46	36 1	85.17	11 30	15.45	48	12.07	13 43	15.94	44	81.07	4 05	9.22	20	5.12	1 00
14.60	24	21.03	20 40	16.19	1	85.17	17 31	13.96	49	12.27	12 38	14.91	45	81.13	3 56	14.79?	20	5.12	1 13
16.19	24	21.09	25 39	15.64	7	86.68	11 37	15.10	51	12.68	11 55	14.03	45	81.31	0 32	15.29	24	6.08	4 21
16.19	26	21.47	26 16	11.74	9	87.34	13 22	15.26	55	13.84	17 53	15.56	46	81.39	7 58	16.19	26	6.38	5 30
16.19	30	22.39	20 59	15.48	10	87.45	12 39	16.19	57	14.25	14 52	16.19	47	81.83	1 35	14.79	29	7.15	5 55
15.64	30	22.58	20 47	14.83	11	87.68	19 40	16.19	58	14.45	15 00	16.19	47	81.83	4 28	15.26	31	7.84	8 28
15.18	34	23.44	29 41	14.79	12	88.09	15 26	14.60	38 1	15.24	12 34	15.33	51	82.78	9 30	15.94	32	7.97	1 31
13.66	34	23.48	20 51	15.67	19	89.64	17 29	13.84	3	15.85	13 19	12.23	52	82.99	5 14	15.18	33	8.24	7 39
15.83	35	23.84	20 46	15.86	19	89.88	11 06	15.83	4	15.87	16 36	15.10	52	83.01	4 39	15.18	33	8.26	2 18
15.86?	36	24.06	24 58	16.19	23	90.70	11 41	13.28	5	16.32	18 50	16.19	53	83.26	8 21	16.10	33	8.30	9 43
12.88	42	25.62	29 21	14.41	24	90.96	15 05	16.02	8	17.12	19 59	15.48	56	84.00	7 42	15.26	35	8.68	5 55
12.68	43	25.68	27 02	13.73	24	91.12	18 31	15.67	13	18.27	10 34	15.83	56	84.09	9 22	15.06	37	9.37	9 33
13.84	44	26.08	20 36	14.98	32	93.05	14 37	15.75	14	18.57	19 13	15.18	59	84.75	3 38	15.37	39	9.81	5 19
13.96	46	26.49	27 10	14.41	32	93.05	14 25	16.02	20	20.05	10 05	12.88	36 0	84.89	4 43	15.67	44	10.90	0 10
16.19	52	27.88	24 02	14.49	37	94.26	17 17	15.48	22	20.62	15 02	14.91	0	84.90	5 18	15.45	52	13.08	7 22
16.19	55	28.85	26 00	14.14	44	95.97	17 35	12.88	26	21.58	11 31	15.45	2	85.51	1 25	15.37	53	13.16	4 57
12.00	58	29.56	22 13	15.56	46	96.52	12 05	9.87	28	22.08	10 28	16.19	2	85.62	7 59	15.10	59	14.78	9 09
14.79	59	29.77	25 00	16.19	49	97.16	14 15	14.30	29	22.30	14 42	15.26	6	86.45	3 14	13.96	38 1	15.34	7 07
14.22	39 2	30.44	28 09	16.19	49	97.24	13 47	15.83	30	22.48	12 02	15.56	6	86.49	8 29	14.79	2	15.55	4 05
14.79	2	30.52	21 48	15.67	51	97.65	17 49	14.22	33	23.36	10 06	15.86	6	86.51	5 24	15.64	5	16.25	3 27
15.56	4	31.05	28 25	15.56	51	97.78	14 16	16.19	33	23.36	17 46	16.10	6	86.57	8 37	13.66	6	16.46	0 33
15.75	6	31.48	25 25	14.49	53	98.14	11 25	15.45	36	24.02	14 14	15.56	13	88.30	1 23	14.41	6	16.61	1 57
15.48	8	32.05	28 25	16.10	58	99.50	19 16	13.66	41	25.28	14 12	15.45	14	88.39	2 04	15.10	7	16.72	9 14
15.94	9	32.35	22 36	14.03	58	99.58	17 53	12.68	41	25.29	17 04	14.68	16	89.07	2 30	15.06	12	18.11	8 16
15.64	12	33.08	25 25	13.28	59	99.74	10 49	13.66	44	25.94	10 20	13.08	17	89.35	6 35	15.67	16	18.97	2 10

25 prec. + 77 sec. + 6′ 47″.

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¹) Magnitude uncertain, extrapolated. Vis. magn. H.A. 54 = 7.67.

21^{h} Area 113. — 0°, + 0°

301—350				351—400				401—450				451—500				501—550			
Int. magn.	α	x	y−0′	Int. magn.	α	x	y−0′	Int. magn.	α	x	y−0′	Int. magn.	α	x	y−0′	Int. magn.	α	x	y−0′
	m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″
13.66	38 16	19.05	−6 55	15.67	36 18	89.57	5 09	13.47	38 3	15.81	0 29	15.14	35 47	81.69	19 31	15.48	37 31	7.74	14 21
15.26	17	19.20	6 24	16.19	18	89.58	2 47	16.19	6	16.40	4 49	14.98	47	81.70	11 59	15.67	35	8.81	18 21
15.75	19	19.71	6 32	15.48	19	89.68	8 29	16.19	7	16.66	6 50	10.24	48	81.99	10 43	12.00	37	9.37	11 50
14.03	19	19.85	2 17	14.87	24	90.97	7 08	15.94	10	17.54	5 55	15.83	54	83.39	11 47	15.26	41	10.17	12 21
16.19	21	20.21	6 24	15.29	28	92.12	9 20	14.14	10	17.54	1 00	15.10	56	84.10	19 03	15.45	42	10.43	13 17
14.79	21	20.27	3 17	15.90	30	92.62	9 42	16.19	13	18.16	7 13	16.19	59	84.88	11 55	15.52	43	10.82	10 00
14.83	23	20.77	9 25	16.19	31	92.85	3 39	16.19	13	18.27	6 24	15.94	36 0	85.07	11 21	15.18	44	10.97	13 18
15.06	24	21.02	2 54	16.10	35	93.85	4 42	11.09	16	18.94	2 37	15.26	6	86.54	14 23	15.83	50	12.51	18 14
15.10	24	21.03	4 58	15.64	35	93.85	5 55	14.11	22	20.55	1 31	12.00	8	87.06	15 48	14.14	55	13.68	12 22
14.30	25	21.26	1 58	14.87	36	94.01	9 15	16.10	23	20.70	0 27	15.67	9	87.18	16 34	16.19	57	14.13	11 31
14.52	27	21.74	0 53	15.94	37	94.27	4 26	16.19	23	20.84	4 24	16.19	10	87.38	14 51	13.84	38 1	15.34	14 18
15.29	29	22.26	2 31	16.10	38	94.56	1 59	15.37	23	20.86	6 50	16.10	11	87.81	15 05	15.64	7	16.66	14 14
16.19	32	23.02	7 47	15.75	39	94.71	0 39	15.52	25	21.18	0 07	16.19	13	88.28	16 59	15.26	7	16.87	16 44
10.26	33	23.13	3 13	13.99	40	95.01	9 48	15.64	25	21.19	5 24	15.67	20	89.90	18 41	16.19	8	16.92	14 15
12.88	33	23.22	5 44	15.75	42	95.47	8 49	13.66	25	21.36	2 20	16.19	20	89.92	11 24	15.67	10	17.54	17 53
14.64	33	23.30	0 05	13.96	47	96.65	2 02	15.18	26	21.41	6 06	9.70	21	90.14	12 57	15.86	13	18.13	11 17
15.37	34	23.51	7 46	15.48	47	96.68	8 43	14.14	28	21.94	4 37	15.64	23	90.69	12 03	15.10	13	18.34	17 28
16.10	41	25.29	9 06	15.64	47	96.81	7 30	15.26	29	22.33	4 38	15.64	23	90.85	14 32	16.19	16	19.04	13 02
15.94	44	26.07	8 17	16.19	51	97.73	8 05	8.2[1]	32	23.04	4 38	15.64	24	91.08	16 52	15.06	16	19.08	18 26
16.19	51	27.63	1 24	16.19	53	98.35	8 18	14.11	33	23 25	7 08	15.10	27	91.79	11 08	15.10	16	19.09	18 14
16.19	51	27.77	9 41	14.79	54	98.47	7 29	10.85	34	23.56	5 31	14.79	31	92.76	18 02	13.96	16	19.10	10 37
14.52	52	27.94	8 28	14.14	55	98.70	1 17	14.79	37	24.25	9 02	15.06	36	94.07	16 04	15.10	18	19.43	12 26
15.10	53	28.29	5 15	14.41	55	98.86	9 09	13.28	37	24.35	8 52	12.88	39	94.78	19 47	14.87	21	20.14	18 36
10.59	54	28.47	6 14	14.79	55	98.87	3 49	15.37	38	24.54	1 20	16.19	41	95.26	11 15	16.10	23	20.79	10 33
16.19	57	29.22	1 51	16.19	56	99.05	2 33	15.83	42	25.64	7 10	10.72	44	96.12	12 00	14.87	32	22.92	19 24
15.67	58	29.44	8 20	16.19	57	99.24	2 07	15.45	46	26.56	9 46	15.56	49	97.20	12 08	13.28	37	24.17	17 47
15.29	59	29.79	1 39	16.19	37 2	0.54	8 28	16.10	48	27.01	2 26	15.86	51	97.66	17 58	16.19	37	24.35	13 51
12.67	39 7	31.86	8 42	14.71	3	0.73	8 48	15.48	50	27.39	1 06	14.11	53	98.35	12 46	14.52	40	25.01	12 36
14.49	19	34.87	−0 41	14.49	7	1.68	9 29	15.06	53	28.34	7 59	14.33	54	98.44	19 09	14.30	43	25.80	11 03
15.86	35 27	76.69	+4 41	15.18	7	1.82	3 02	13.08	57	29.29	2 35	15.56	56	99.05	17 54	16.19	44	25.88	15 03
15.64	27	76.72	3 02	15.18	9	2.25	8 07	15.37	39 0	29.99	0 56	12.00	37 3	0.79	19 58	16.19	44	25.92	16 34
16.19	28	77.07	0 35	13.28	11	2.84	2 05	15.29	0	30.03	6 52	16.19	6	1.62	12 22	16.10	44	25.96	14 47
13.28	33	78.23	7 21	16.19	14	3.42	6 17	15.45	6	31.62	5 42	14.30	8	1.99	12 57	16.19	45	26.23	13 55
15.94	34	78.52	0 10	15.86	23	5.68	1 32	15.67	15	33.76	2 39	14.03	9	2.24	13 13	15.64	48	27.01	13 56
14.60	37	79.36	8 29	16.19	23	5.76	5 57	12.00	15	33.79	5 24	14.52	10	2.49	17 26	15.29	49	27.29	11 37
15.64	37	79.37	8 02	14.79	29	7.32	6 37	15.48	19	34.68	7 12	15.67	12	2.96	14 35	15.52	51	27.68	10 15
14.03	42	80.60	0 42	14.22	31	7.78	1 52	15.06	19	34.82	6 49	16.19	13	3.15	12 29	15.94	58	29.53	15 44
15.37	47	81.79	5 29	14.18	34	8.47	9 49	15.83	35 21	75.35	15 41	10.44	14	3.61	13 02	16.19	39 1	30.36	10 33
12.04	49	82.13	0 43	13.66	43	10.82	0 50	16.19	23	75.86	15 47	16.10	14	3.62	18 15	11.50	2	30.62	19 26
15.64	49	82.28	2 53	14.60	44	10.90	5 27	11.74	28	76.96	14 33	15.56	17	4.19	10 37	14.79	3	30.71	19 13
15.18	52	83.08	5 51	14.33	44	10.93	0 44	16.19	32	77.95	18 49	14.98	18	4.43	16 32	15.86	4	30.98	13 28
11.04	53	83.14	0 20	15.56	44	11.08	0 47	10.18	33	78.26	17 31	12.00	21	5.23	10 59	15.67	5	31.34	10 34
14.79	58	84.61	3 16	14.41	46	11.61	7 03	11.74	34	78.40	12 19	12.00	22	5.39	10 48	14.30	11	32.70	18 57
14.68	59	84.72	8 06	15.64	50	12.49	6 47	16.19	37	79.31	19 28	13.66	22	5.43	13 36	11.24	11	32.78	19 49
14.87	36 0	85.09	1 51	12.88	51	12.87	3 06	15.94	38	79.43	18 27	13.08	23	5.73	10 45	13.77	16	33.90	19 07
15.94	3	85.70	6 14	15.06	52	13.01	8 58	14.83	39	79.83	19 42	15.18	23	5.87	11 54	15.83	19	34.77	17 54
16.19	4	86.12	8 45	15.22	54	13.42	9 38	16.19	40	80.07	12 13	15.56	25	6.22	14 46	14.87	35 23	75.77	28 08
16.19	8	86.90	5 33	15.67	57	14.27	2 45	14.33	43	80.78	10 29	13.47	26	6.39	14 16	15.67	23	75.86	25 50
15.18	15	88.87	5 55	12.00	38 1	15.24	0 15	14.41	44	81.11	12 41	15.83	26	6.48	13 25	15.37	28	77.08	26 12
14.33	17	89.19	+5 08	14.79	2	15.44	3 02	15.64	46	81.44	18 07	15.56	28	7.12	15 03	16.19	31	77.77	25 35

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[1] Magn. uncertain, extrapolated. Vis. magn. H.A. 54 = 7·06.

25 prec. + 77 sec. + 6′ 47″.

551—580				581—610				611—640				641—654							
Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′	Int. magn.	α	x	y—0′				
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″				
15.29	35 38	79.56	26 49	16.09	36 42	95.51	21 57	16.19	37 48	11.98	25 46	16.19	38 59	29.65	25 40				
14.87	40	80.01	25 56	14.33	43	95.77	20 42	11.50	53	13.18	25 24	15.29	59	29.74	23 52				
9.70	43	80.64	25 25	12.23	45	96.33	29 04	15.67	59	14.77	29 32	14.41	39 4	31.00	24 34				
12.46	45	81.32	25 42	15.67	47	96.73	20 28	15.75	59	14.82	29 10	16.10	4	31.07	23 04				
14.98	46	81.42	29 13	15.94	55	98.74	21 16	15.67	38 0	15.10	23 36	15.83	5	31.35	21 34				
14.30	49	82.23	22 50	16.19	55	98.76	24 59	14.33	1	15.24	21 49	15.75	5	31.37	20 11				
15.94	51	82.82	29 32	16.19	56	98.93	24 59	15.18	6	16.45	27 42	15.18	7	31.79	24 39				
16.19	53	83.29	27 23	14.41	56	98.96	29 41	15.56	10	17.44	22 42	15.45	7	31.86	26 57				
13.28	54	83.46	23 10	12.88	57	99.35	28 06	15.45	12	18.07	28 22	14.79	9	32.16	20 17				
16.19	55	83.63	29 02	15.56	58	99.42	22 25	15.18	18	19.43	23 39	12.23	10	32.61	29 37				
15.48	56	83.96	22 20	14.52	59	99.64	26 15	14.91	19	19.64	21 21	12.46	13	33.17	27 26				
13.08	57	84.33	20 30	13.73	37 1	0.18	20 00	15.94	19	19.65	22 02	13.28	18	34.56	24 55				
13.08	59	84.70	22 22	15.26	1	0.34	26 09	14.52	22	20.46	25 52	10.51	19	34.75	27 22				
14.79	59	84.80	20 31	16.10	2	0.52	25 47	15.75	25	21.26	20 41	16.19	20	34.98	28 51				
15.48	36 1	85.18	25 20	15.45	5	1.16	23 00	15.10	27	21.80	24 49								
16.19	2	85.54	20 27	16.19	8	1.90	24 07	15.64	30	22.55	28 12								
15.18	6	86.51	23 00	16.19	8	2.04	27 03	14.22	32	23.07	20 42								
12.88	8	87.08	27 44	11.06	8	2.12	23 06	15.75	35	23.81	24 44								
14.33	14	88.40	29 26	14.79	9	2.21	23 49	14.41	38	24.49	26 28								
15.37	22	90.38	28 12	15.10	10	2.42	23 49	15.06	38	24.54	25 21								
13.66	24	90.98	23 48	14.87	12	3.08	25 30	14.41	39	24.82	25 09								
15.83	27	91.64	20 38	13.84	13	3.22	24 54	16.19	40	25.00	25 49								
15.29	27	91.66	21 13	15.94	14	3.61	29 10	12.88	44	25.95	29 12								
14.60	27	91.79	26 11	15.67	17	4.24	29 49	14.87	45	26.17	27 02								
14.87	30	92.48	23 05	15.67	24	5.98	23 17	15.48	47	26.83	28 51								
13.47	31	92.73	23 35	14.33	28	6.90	20 34	16.19	49	27.31	25 41								
15.94	38	94.46	25 15	15.06	30	7.40	25 29	14.98	51	27.78	20 43								
15.45	38	94.53	22 30	13.55	33	8.16	20 12	11.90	51	27.79	20 07								
15.37	39	94.65	23 11	14.03	38	9.53	21 21	15.18	52	27.99	22 30								
15.29	39	94.72	27 58	14.60	46	11.46	25 17	15.18	57	29.30	24 49								

25 prec. + 77 sec. + 6′ 47″.

22h Area 114. Centre for 1900: 22h 37m + 0° 10′. — 0°

1—10				11—20				21—30				31—40				41—50			
Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′	Int. magn.	α	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
15.20	34 39	64.87	23 56	15.89	35 8	71.93	27 00	16.14	35 34	78.59	24 51	16.14	35 48	81.90	23 44	13.80	36 27	91.68	27 59
16.14	47	66.87	22 02	15.80	11	72.69	24 47	16.14	36	78.89	24 54	12.58	48	81.93	26 38	10.01	30	92.52	24 26
15.10	54	68.47	22 20	13.80	12	72.95	26 03	15.89	36	79.11	23 39	12.34	50	82.45	29 36	15.89	30	92.53	21 49
12.21	55	68.83	23 20	12.61	18	74.61	24 14	16.14	37	79.19	27 47	15.37	53	83.25	27 35	13.92	32	92.92	20 07
14.81	35 1	70.17	26 36	15.01	19	74.78	23 02	14.72	38	79.38	28 20	16.14	36 3	85.73	26 11	14.95	33	93.13	24 54
14.43	1	70.22	22 10	16.14	21	75.31	25 05	11.85	39	79.63	28 46	15.10	9	87.29	23 40	15.04	35	93.83	23 01
15.44	2	70.61	25 19	16.14	22	75.55	28 00	15.80	42	80.44	21 29	16.14	12	88.05	24 54	14.23	37	94.36	21 43
12.28	3	70.84	22 02	16.14	26	76.53	28 45	15.17	43	80.86	26 22	15.89	15	88.74	24 48	13.80	37	94.37	29 58
14.66	5	71.34	24 58	13.05	30	77.62	27 36	16.14	47	81.65	28 58	15.44	24	91.12	25 21	15.89	42	95.40	29 51
15.80	6	71.43	25 17	13.66	32	77.88	28 36	12.69	47	81.71	20 44	13.20	25	91.21	28 53	13.66	43	95.76	25 20

25 prec. + 77 sec. + 7′ 48″.

Area 114.

51—100				101—150				151—200				201—250				251—300			
Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$	Int. magn.	α	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.52	36 44	95.96	21 38	16.05	39 4	31.11	27 43	10.87	36 27	91.68	10 35	14.69	39 22	35.40	19 20	16.14	36 50	97.60	2 57
14.90	48	97.12	21 00	16.14	6	31.56	21 32	13.20	28	92.07	14 29	15.89	22	35.62	18 52	10.97	55	98.85	2 22
12.58	51	97.86	22 02	14.29	7	31.79	29 01	14.75	32	92.93	19 29	16.14	24	36.01	17 16	16.14	37 1	0.19	0 56
15.66	53	98.37	23 23	16.14	9	32.27	26 55	15.34	36	93.95	15 42	14.72	32	38.08	15 24	16.05	1	0.27	8 34
11.59	55	98.63	20 05	16.14	11	32.78	20 44	12.88	39	94.70	17 06	15.89	38	39.41	14 04	14.64	1	0.28	0 30
13.60	56	99.06	20 06	11.39	13	33.23	25 10	14.23	50	97.53	15 26	14.81	46	41.41	16 49	15.27	2	0.40	4 28
16.14	37 5	1.28	23 59	16.14	15	33.78	27 53	16.14	52	97.89	16 04	16.14	46	41.61	10 00	16.14	9	2.30	8 48
15.27	6	1.57	26 42	13.80	16	33.88	26 20	12.12	53	98.17	12 18	13.36	49	42.33	12 47	14.87	13	3.31	7 30
13.80	8	2.03	28 31	15.80	17	34.14	29 47	12.58	53	98.32	19 46	16.05	51	42.77	11 39	14.75	14	3.49	4 07
15.44	9	2.35	29 38	15.10	18	34.40	28 24	15.53	55	98.74	12 47	14.81	54	43.54	19 47	15.34	19	4.63	1 23
14.58	14	3.47	24 51	15.57	19	34.80	28 00	14.01	56	99.08	15 21	16.14	34 38	64.39	9 35	15.20	28	7.09	4 59
14.72	17	4.15	25 07	15.75	23	35.68	29 45	16.05	57	99.22	15 43	14.81	45	66.29	2 08	15.57	29	7.28	7 59
14.29	19	4.64	20 11	14.46	24	36.10	27 56	16.14	58	99.56	15 27	15.20	46	66.38	7 41	12.72	29	7.36	8 18
11.15	19	4.82	29 41	16.14	31	37.71	21 57	14.32	37 1	0.34	17 21	14.23	50	67.58	6 27	14.37	31	7.75	0 36
16.14	26	6.53	23 24	16.14	47	41.72	22 21	16.14	4	2.91	14 28	16.14	59	69.77	6 10	14.37	35	8.65	8 21
14.66	28	6.98	22 30	12.32	48	41.99	26 46	15.66	13	3.14	10 55	16.14	35 1	70.27	5 20	13.95	35	8.66	5 46
16.05	30	7.55	23 23	15.89	52	42.98	28 50	15.89	27	6.66	19 19	14.72	1	70.37	4 46	16.14	35	8.71	4 59
13.20	34	8.38	29 23	13.36	54	43.57	21 38	13.51	30	7.39	12 36	16.14	4	71.11	2 25	14.58	36	8.93	0 38
7.01	35	8.80	27 07	16.14	55	43.67	25 29	14.87	39	9.83	17 26	14.87	5	71.31	9 57	15.44	38	9.50	0 36
15.89	38	9.43	27 02	12.39	34 42	65.43	10 59	15.53	40	9.88	13 00	16.14	8	72.07	9 59	15.89	39	9.82	9 12
14.58	45	11.37	29 45	13.51	43	65.74	17 32	11.59	41	10.23	18 43	12.72	12	73.11	3 05	16.14	41	10.21	4 21
14.58	46	11.51	26 25	15.57	54	68.48	13 36	7.00*	42	10.42	17 31	13.05	21	75.22	7 05	8.56	50	12.44	7 04
16.14	49	12.32	26 59	15.75	58	69.46	17 39	16.14	51	12.74	17 13	10.80	24	76.07	0 10	14.61	50	12.62	9 48
15.27	50	12.60	26 43	14.58	59	69.86	17 25	12.69	38 1	15.29	18 39	14.32	25	76.37	5 07	14.98	54	13.48	0 01
14.95	51	12.67	25 20	16.14	35 4	70.97	13 14	12.88	1	15.32	15 53	15.34	31	77.67	7 09	13.66	58	14.55	7 02
15.75	52	12.93	29 58	16.14	5	71.22	19 56	10.49	3	15.71	10 09	16.14	33	78.33	0 59	14.01	38 1	15.17	0 12
16.05	52	13.00	28 49	14.66	11	72.74	19 51	15.75	10	17.45	11 33	13.51	39	79.64	3 43	14.15	2	15.44	7 37
15.89	38 2	15.45	22 37	15.89	11	72.85	12 01	14.09	16	18.89	18 17	12.88	40	80.04	0 30	14.95	3	15.87	2 23
14.90	6	16.44	20 01	15.89	12	73.12	11 11	15.53	18	19.62	14 45	14.95	43	80.72	4 57	13.05	12	17.99	3 15
14.61	6	16.58	27 18	15.53	15	73.87	14 54	11.53	22	20.57	19 24	15.80?	55	83.80	5 31	12.12	16	18.88	6 25
13.36	16	18.97	20 14	13.20	16	74.07	12 00	16.05	23	20.82	19 08	15.34	56	84.09	4 25	13.20	17	19.16	3 12
15.75	16	19.09	22 17	16.05?	17	74.15	16 40	15.80	25	21.34	11 38	15.17	58	84.57	6 15	14.32	18	19.41	5 26
15.89	17	19.22	20 48	15.34	18	74.60	12 34	16.05	28	22.08	17 07	14.75	36 6	86.47	3 59	14.32	18	19.51	9 39
15.53	19	19.83	20 21	16.14	19	74.87	18 07	16.14	29	22.22	17 39	15.17	10	87.45	6 02	16.05	25	21.15	1 43
15.01	21	20.20	24 45	13.66	20	74.88	12 10	12.88	32	23.10	16 07	16.14	13	88.17	4 30	15.17	26	21.59	0 19
15.66	22	20.57	23 22	16.14	27	76.74	16 11	14.61	37	24.23	11 43	10.67	13	88.21	2 32	13.80	29	22.24	2 42
15.66	27	21.78	26 02	14.58	34	78.48	17 58	14.95	48	26.88	17 26	13.75	13	88.32	1 52	13.05	30	22.53	5 32
16.14	30	22.60	22 19	14.75	37	79.17	18 26	16.14	48	27.04	19 42	14.61	16	89.04	9 11	16.14	31	22.65	9 32
16.14	31	22.69	27 57	15.89	37	79.26	17 09	16.05?	52	27.90	11 12	15.44	22	90.53	8 51	13.20	31	22.69	7 45
16.05	31	22.70	23 25	14.95	40	79.93	19 52	16.05	55	28.66	15 28	15.53	24	90.78	5 50	16.14	32	23.01	3 04
14.52	32	23.11	21 32	14.87	43	80.72	12 33	15.66	56	28.92	13 49	16.14	27	91.71	6 28	15.10	33	23.21	9 47
14.81	36	23.94	25 08	16.14	44	81.03	13 54	15.34	57	29.17	16 46	13.05	27	91.82	2 49	15.89	33	23.26	0 09
15.53	40	24.98	20 45	14.81	45	81.14	19 20	15.01	58	29.58	11 08	14.81	34	93.56	5 29	16.14	34	23.39	9 47
13.80	45	26.36	25 16	16.14	47	81.82	14 05	15.20	39 1	30.33	12 32	13.36	36	93.92	6 44	14.37	35	23.68	3 21
16.05	48	27.03	27 48	15.34	57	84.17	10 03	14.52	3	30.81	10 33	15.17	37	94.26	1 25	16.14	36	23.91	5 43
15.44	48	27.07	25 28	14.90	57	84.30	11 48	14.75	4	30.95	14 18	15.30	38	94.38	0 08	15.30	37	24.15	0 07
16.14	51	27.84	22 25	15.75	36 3	85.79	15 03	11.27	6	31.38	17 22	16.14	38	94.56	4 49	16.05	37	24.20	4 21
15.20	59	29.72	29 33	16.14	8	86.94	14 40	13.05	10	32.48	16 19	15.66	41	95.15	4 28	13.36	38	24.40	0 32
14.75	39 0	30.09	21 53	13.36	12	88.07	13 50	15.71	13	33.15	19 53	15.04	47	96.66	2 11	13.51	42	25.51	3 26
15.89	4	31.02	26 26	15.89	21	90.31	19 50	12.46	21	35.13	15 46	16.14	49	97.28	1 01	15.89	43	25.79	6 30

25 prec. + 77 sec. + 7′ 49″.

301—350				351—400				401—450				451—500				501—550			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″		m s	′	′ + ″
15.89	38 55	28.70	−6 51	16.05	36 27	91.77	6 46	14.37	38 22	20.53	6 34	14.58	36 14	88.56	10 07	11.39	39 9	32.24	14 49
15.66	56	28.90	1 30	14.81	28	91.92	2 22	13.95	23	20.64	9 50	15.17	17	89.34	10 25	12.88	14	33.38	19 00
15.53	57	29.19	4 42	10.13	28	91.96	8 06	15.34	26	21.47	9 01	13.36	24	90.99	19 18	16.14	30	37.53	10 44
15.04	58	29.47	5 23	14.37	28	92.02	0 42	15.27	28	22.00	0 04	14.66	25	91.22	10 18	15.01	32	37.93	15 05
15.57	39 2	30.59	9 22	13.20	29	92.32	3 12	15.04	33	23.27	7 18	14.90	25	91.25	13 56	15.53	38	39.38	12 39
14.64	3	30.83	9 56	15.75	36	94.04	3 04	14.15	42	25.45	9 33	15.44	28	91.90	14 29	15.75	39	39.78	10 19
16.05	4	30.94	4 58	14.66	39	94.84	0 20	16.14	43	25.67	9 02	16.05	32	92.91	17 15	13.27	40	40.09	10 11
14.23	11	32.74	8 12	16.14	42	95.55	6 57	13.36	44	26.00	9 47	16.05	39	94.83	12 43	15.57	42	40.48	16 21
15.75	14	33.41	8 29	15.53	44	95.93	4 32	15.17	51	27.86	6 16	16.05	39	94.87	19 30	13.27	43	40.87	10 04
14.87	16	33.95	6 05	13.80	44	95.97	5 21	16.05	52	28.12	9 56	16.14	42	95.43	10 59	12.88	34 39	64.63	22 14
14.01	17	34.20	2 56	14.61	49	97.14	6 08	16.05	39 3	30.77	5 39	14.58	42	95.56	10 04	15.57	40	64.89	26 58
11.97	19	34.79	1 52	14.32	53	98.31	2 35	15.37	16	34.02	1 59	14.29	43	95.64	11 50	16.14	43	65.63	21 49
15.89	24	35.90	8 06	13.80	57	99.24	5 24	12.88	19	34.87	9 25	15.34	50	97.45	18 23	15.53	45	66.21	22 44
15.04	26	36.42	5 34	15.17	58	99.57	6 46	14.03	22	35.40	8 15	15.01	53	98.29	16 55	16.14	47	66.74	26 53
14.75	28	37.07	5 58	15.80	37 1	0.15	7 05	14.61	22	35.41	9 44	16.14	54	98.52	19 14	16.14	48	67.00	25 38
16.14	39	39.70	7 36	14.29	1	0.20	7 54	15.80	23	35.76	4 45	15.10	55	98.86	16 23	13.20	50	67.54	24 23
15.89 :	41	40.31	0 32	15.89	2	0.60	2 05	15.37	23	35.79	9 01	13.66	59	99.65	12 06	13.75	51	67.87	24 59
12.09	43	40.79	0 08	14.52	5	1.18	2 27	13.95	28	36.96	2 50	15.20	59	99.81	15 35	12.58	35 3	70.84	21 55
15.80	50	42.41	1 40	14.75	8	1.93	4 27	16.05	29	37.22	0 38	14.58	37 4	1.09	16 35	14.90	6	71.53	24 52
14.03	50	42.41	−6 33	16.14	9	2.18	1 19	16.14	31	37.63	7 28	14.58	9	2.14	19 05	15.20	6	71.57	26 43
14.95	34 37	64.26	+0 27	13.80	12	3.11	4 15	15.80	34	38.42	4 23	12.56	9	2.16	11 07	15.20	9	72.37	20 41
13.66	40	65.11	7 20	12.17	13	3.29	3 47	15.01	35	38.87	6 29	13.80	9	2.29	12 53	14.43	12	72.99	21 35
15.57	49	67.30	8 39	15.17	15	3.79	4 07	14.43	41	40.30	2 34	9.30*	17	4.19	14 52	15.57	12	73.09	27 28
14.61	50	67.43	7 13	15.04	17	4.16	3 05	15.66	48	41.99	1 04	14.61	18	4.57	14 37	14.81	16	73.96	29 04
16.14	51	67.76	6 54	13.51	17	4.37	0 01	13.75	49	42.24	8 20	15.17	22	5.39	17 52	16.14	17	74.15	28 04
15.37	54	68.62	1 45	16.05	18	4.49	2 07	16.14	51	42.78	3 55	15.75	31	7.71	19 25	14.81	18	74.61	26 39
14.15	35 1	70.20	1 50	12.69	21	5.36	8 27	13.80	56	43.88	0 40	15.89	32	8.12	17 43	11.91	18	74.62	27 45
15.44	1	70.26	5 36	15.04	22	5.45	1 03	16.14	34 39	64.86	13 30	15.80	37	9.26	13 24	15.53	21	75.30	21 36
16.05	3	70.83	2 18	15.53	22	5.61	3 11	16.14	40	65.02	12 29	14.75	41	10.18	14 02	14.29	22	75.60	22 02
12.72	8	71.90	9 03	14.75	23	5.76	3 37	15.37	40	65.11	18 54	16.14	41	10.33	18 28	14.90	24	75.90	25 13
15.24	9	72.21	9 37	13.36	26	6.57	8 12	16.14	41	65.30	18 50	15.44	43	10.86	14 20	12.09	30	77.48	20 39
15.80	9	72.23	3 29	15.53	30	7.38	6 15	16.14	44	66.05	12 52	15.20	45	11.18	19 33	15.04	31	77.72	28 15
15.04	15	73.66	2 00	16.14	36	8.95	0 38	16.14	46	66.46	11 17	13.95	46	11.41	11 40	16.14	36	79.08	21 15
13.05	23	75.76	5 29	15.89	37	9.13	1 06	15.04	50	67.38	13 53	14.81	53	13.33	15 51	13.05	40	80.10	25 21
13.20	25	76.18	9 13	15.44	39	9.73	6 27	15.37	50	67.52	10 04	14.95	56	14.02	18 39	15.80	42	80.57	23 15
16.14?	30	77.50	3 45	13.80	41	10.27	7 33	14.72	54	68.47	14 26	14.95	57	14.25	16 30	14.17	49	82.32	27 23
16.14	43	80.81	5 29	12.00	41	10.28	6 08	15.89	35 4	70.95	14 59	16.14	57	14.34	15 58	11.19	56	83.91	21 18
16.05	46	81.48	1 58	14.90	45	11.23	1 34	14.37	5	71.13	14 11	14.58	38 4	15.93	13 24	15.89	36 0	85.06	27 25
14.52	56	83.97	3 42	12.78	48	12.06	7 48	16.14	9	72.21	11 00	12.58	6	16.56	18 59	14.15	1	85.24	21 42
15.01	59	84.84	2 11	15.10	49	12.33	1 40	14.72	25	76.35	18 14	13.36	12	17.88	16 33	16.14	2	85.61	20 14
14.03	36 0	85.10	2 57	13.36	52	12.93	4 53	15.66	37	79.33	16 53	15.44	23	20.70	13 42	14.01	6	86.47	21 36
14.66	1	85.16	2 45	13.80	56	14.11	2 38	14.46	38	79.62	12 44	14.23	28	22.07	14 31	15.53	6	86.51	27 26
15.80	4	86.01	9 05	15.44	38 3	15.68	2 46	14.90	42	80.38	12 34	10.70	29	22.28	17 36	16.14	6	86.55	27 00
15.89	12	87.92	5 46	16.14	4	15.99	9 03	15.34	46	81.53	16 15	16.14	35	23.77	11 32	15.66	9	87.20	21 57
16.14	16	88.90	3 47	15.57	10	17.47	5 45	16.14	52	83.12	13 15	16.14	37	24.30	16 33	15.10	11	87.87	26 35
14.95	16	88.97	3 08	14.58	13	18.15	4 09	12.19	57	84.19	14 45	15.89	37	24.36	13 25	14.90	12	88.08	25 19
15.89	16	89.03	3 03	15.44	15	18.67	8 46	16.05	58	84.51	15 23	15.01	40	24.94	11 13	16.14	19	89.76	20 31
15.27	17	89.32	1 36	15.34	17	19.14	7 19	13.80	36 7	86.78	16 05	14.23	45	26.23	19 51	12.40	30	92.50	27 46
12.72	25	91.29	8 51	13.05	17	19.36	4 52	16.14	9	87.23	11 13	16.14	56	29.10	19 03	14.17	36	94.03	29 40
13.80	26	91.38	+2 18	15.89	21	20.28	0 48	14.87	12	88.02	18 39	16.14	39 8	31.95	14 26	15.37	47	96.64	26 58

25 prec. + 77 sec. + 7′ 49″.

551—600				601—650				651—700				701—750				751—800			
Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int. magn.	a	x	y+10′	Int magn.	a	x	y+10′	Int. magn.	a	x	y+10′
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
13.98	36 48	97.02	29 35	13.36	39 32	37.88	26 15	10.37	36 5	86.35	31 46	15.53	38 52	28.11	30 05	14.87	36 40	94.96	40 30
15.41	54	98.40	29 34	15.37	33	38.21	25 47	14.81	9	87.37	38 14	16.05	39 12	32.95	37 17	13.20	44	95.88	41 20
14.58	58	99.51	25 57	14.15	37	39.34	25 23	14.95	16	88.95	33 24	14.03	13	33.27	30 24	15.44	45	96.13	40 26
15.04	37 0	99.93	27 24	14.32	38	39.58	23 10	12.15	19	89.82	38 51	10.01	14	33.47	38 07	12.78	52	97.93	43 26
14.72	1	0.13	27 09	16.14	39	39.85	26 07	16.14	20	90.09	39 29	15.89	17	34.14	34 31	11.39	37 1	0.36	45 27
15.17	1	0.17	25 03	16.14	41	40.26	20 47	12.82	28	92.08	39 48	16.14	17	34.30	32 05	15.80	14	3.42	43 04
15.57	3	0.87	29 14	13.86	44	40.88	29 52	15.20	29	92.26	31 36	15.89	19	34.72	34 07	15.89	15	3.78	40 05
16.14	5	1.27	25 11	15.17	45	41.24	27 23	13.66	31	92.77	35 02	13.51	23	35.65	31 13	16.14	16	3.99	47 25
13.36	7	1.80	29 32	16.14	49	42.29	23 28	15.17	35	93.65	37 33	14.72	33	38.25	30 13	14.09	16	4.12	49 03
13.60	11	2.74	23 11	15.53	49	42.30	24 11	15.04	43	95.72	38 53	15.44	34	38.40	35 58	15.75	18	4.49	47 34
14.95	12	3.00	23 40	15.57	51	42.72	21 09	14.37	44	96.08	32 06	15.34	35	38.83	35 20	14.95	18	4.56	43 53
16.14	23	5.78	26 28	12.72	52	42.89	29 24	15.34	45	96.35	38 52	16.14	40	39.90	33 43	16.14	19	4.74	42 10
13.66	40	10.10	20 28	13.20	52	42.91	28 37	16.14	46	96.44	33 35	16.05	43	40.79	30 31	14.03	21	5.18	46 01
14.29	42	10.56	23 26	15.89	52	43.01	26 20	14.87	53	98.14	32 58	14.81	44	40.99	33 37	14.66	28	6.96	43 51
14.87	49	12.31	23 09	13.36	54	43.47	25 57	15.66	53	98.27	30 14	14.23	50	42.41	32 44	14.32	29	7.26	43 34
15.44	52	12.97	22 56	8.60	34 39	64.72	31 04	15.66	53	98.32	34 22	13.36	34 38	64.44	46 15	13.51	32	7.98	40 54
15.34	54	13.48	27 52	14.17	41	65.13	30 55	16.14	55	98.63	33 19	11.95	38	64.55	48 15	14.72	36	9.08	47 10
13.80	58	14.51	21 21	14.23	41	65.34	33 56	12.72	58	99.52	37 20	15.89	46	66.43	49 41	16.14	41	10.28	40 10
16.14	38 5	16.16	28 17	14.29	44	65.89	37 52	14.40	59	99.81	39 24	15.10	47	66.63	46 31	15.75	42	10.58	48 07
16.14	6	16.55	25 07	15.17	46	66.50	39 11	11.82	37 3	0.67	38 54	8.36*	54	68.41	41 11	14.90	43	10.86	49 31
15.48	11	17.71	29 41	15.34	48	66.92	31 06	16.14	9	2.21	37 19	15.17	54	68.42	44 13	15.89	45	11.33	44 16
16.14	12	18.09	25 07	15.20	52	68.02	36 04	15.27	14	3.54	31 48	16.05	35 9	72.33	49 00	15.89	51	12.75	48 02
15.10	14	18.61	26 49	13.05	57	69.35	32 29	14.29	27	6.65	35 27	16.14	11	72.74	48 31	6.74*	52	12.89	41 38
16.14	19	19.66	21 52	14.95	35 3	70.72	31 46	16.14	28	6.97	33 49	15.34	13	73.24	48 27	16.14	52	13.08	47 34
14.17	26	21.59	23 06	12.58	4	70.97	34 52	12.69	30	7.58	37 44	16.14	15	73.65	47 30	15.80	55	13.64	48 14
14.87	26	21.62	27 41	14.52	8	71.96	33 24	14.01	32	7.89	33 14	16.14	16	74.08	42 29	15.20	56	14.10	42 14
13.66	29	22.18	24 24	15.37	12	73.04	37 36	14.81	32	7.99	34 45	12.88	18	74.55	49 37	14.52	38 2	15.50	43 31
14.23	32	23.12	28 13	14.15	13	73.31	37 44	13.66	35	8.66	34 31	15.20	18	74.61	45 57	15.17	4	15.93	46 31
16.14	33	23.21	24 32	13.05	14	73.51	37 02	13.51	37	9.36	35 00	15.89	19	74.73	49 31	15.10	8	16.98	43 35
12.72	43	25.64	21 04	13.05	21	75.31	39 44	15.04	47	11.82	31 57	16.14	23	75.72	45 01	15.17	8	17.10	42 16
16.14	43	25.66	20 40	15.10	22	75.52	35 46	14.43	49	12.27	38 53	16.14	30	77.51	49 18	11.82	11	17.63	47 59
16.14	43	25.79	22 59	14.17	25	76.25	39 23	15.57	55	13.68	31 04	15.89	36	79.09	46 35	14.95	11	17.73	42 52
15.89	44	25.93	27 21	16.14	28	76.97	34 12	14.43	55	13.69	37 56	15.57	37	79.22	41 26	15.80	19	19.67	44 41
15.17	44	26.07	23 32	16.14	32	77.93	31 12	13.66	55	13.78	35 11	14.43	39	79.67	48 12	15.37	23	20.80	45 34
14.23	47	26.67	23 32	13.36	34	78.50	31 56	14.66	56	14.04	39 34	16.14	45	81.28	40 35	12.30	26	21.52	46 56
15.80	47	26.72	28 34	16.14	36	78.93	31 28	14.01	57	14.33	35 15	14.09	47	81.79	47 50	15.01	27	21.81	40 54
13.95	55	28.74	21 25	12.36	36	78.96	31 52	14.87	38 1	15.13	32 15	14.17	48	81.93	42 24	12.64	28	22.07	43 16
15.44	55	28.85	27 41	14.23	37	79.19	36 25	15.89?	14	18.52	30 47	14.37	51	82.73	41 07	16.05	32	23.02	43 42
14.72	56	28.93	24 31	14.23	37	79.20	35 14	13.80	15	18.81	33 00	16.14	52	82.90	45 48	15.17	33	23.33	42 39
16.14	57	29.24	23 14	14.15	41	80.22	31 08	15.20	22	20.54	39 49	15.75	54	83.39	48 40	12.48	37	24.26	47 17
16.14	58	29.52	24 10	14.81	48	82.03	31 34	13.66	24	20.91	37 53	15.80	54	83.40	40 19	13.51	38	24.60	40 33
15.20	39 0	30.04	27 25	14.61	49	82.35	32 18	12.72	25	21.16	33 12	13.95	54	83.56	40 43	15.53	41	25.16	44 18
12.67	1	30.17	29 17	16.14	49	82.35	31 06	16.14	27	21.73	39 38	15.34	36 1	85.18	43 13	10.87	45	26.18	45 02
12.72	4	30.90	27 31	16.14	49	82.37	33 33	15.53	29	22.22	39 56	14.29	9	87.32	45 52	14.75	46	26.44	44 35
13.36	4	30.92	20 17	14.43	50	82.44	38 45	14.95	30	22.48	30 51	13.20	23	90.73	46 57	16.14	48	27.03	43 00
15.10	10	32.40	20 18	14.32	53	83.27	35 06	16.05	31	22.79	34 36	16.14	27	91.65	45 20	14.66	55	28.83	44 48
16.14	18	34.60	23 03	14.26	54	83.53	39 13	16.14	42	25.60	36 41	15.66	29	92.17	41 01	14.15	56	28.92	48 02
14.37	21	35.36	28 41	15.89	54	83.60	37 46	15.53	48	26.90	36 41	15.57	31	92.68	45 10	14.15	39 1	30.13	42 28
16.14	23	35.71	22 21	14.43	58	84.43	32 39	16.14	48	27.11	38 38	12.69	37	94.24	49 16	14.23	11	32.65	46 49
16.14	24	36.03	22 37	14.61	59	84.71	32 11	15.44	51	27.67	33 55	11.82	38	94.52	41 17	16.14	19	34.67	49 04

25 prec. + 77 sec. + 7′ 49″.

22^h

Area 114.

+ 0°

801—810				811—812			
Int. magn.	a	x	$y+10'$	Int. magn.	a	x	$y+10'$
	m s	′	′ ″		m s	′	′ ″
15.04	39 23	35.64	40 36	14.17	39 54	43.54	41 27
14.87	24	36.01	47 01	16.14	56	43.92	43 43
12.46	24	36.01	44 47				
15.27	30	37.49	45 10				
15.89	30	37.53	47 40				
14.81	31	37.86	41 33				
15.66	32	37.88	40 16				
15.75	37	39.18	47 33				
15.27	44	41.12	47 57				
12.12	53	43.20	47 06				

25 prec. + 77 sec. + 7′ 51″.

23^h

Area 115. Centre for 1900: $23^h\ 38^m + 0°\ 20'$.

— 0°

1—30				31—60				61—90				91—120				121—150			
Int. magn.	a	x	$y+20'$	Int. magn.	a	x	$y+20'$	Int. magn.	a	x	$y+20'$	Int. magn.	a	x	$y+20'$	Int. magn.	a	x	$y+20'$
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
14.15	35 30	62.59	13 56	16.10	38 3	0.70	18 44	15.14	40 45	41.37	11 36	15.14	36 56	84.09	4 54	15.54	38 45	11.17	6 58
15.79	33	63.32	12 47	15.29	4	0.94	14 05	12.13	35 30	62.46	5 36	15.38	57	84.26	2 34	16.10	47	11.85	6 18
15.79	36	63.99	13 12	16.01	9	2.19	17 22	14.61	31	62.71	7 11	11.94	57	84.29	4 29	14.92	48	12.01	0 41
14.15	40	64.95	14 05	14.98	11	2.72	15 40	16.10	31	62.86	1 02	14.31	37 0	85.01	0 24	16.10	49	12.27	6 04
16.10	49	67.14	15 46	15.63	23	5.71	16 51	8.40	33	63.32	8 19	12.86	2	85.60	4 56	13.84	52	12.97	6 05
13.69	49	67.14	14 20	12.28	43	10.83	17 21	16.10	34	63.61	3 11	15.60	13	88.37	4 08	15.60×	55	13.67	2 20
13.53	50	67.52	12 36	13.37	44	10.93	17 18	15.23	36	63.89	3 03	16.10	16	88.88	2 12	15.82	57	14.34	9 34
14.46	57	69.35	19 21	15.48	48	11.92	13 46	16.10	38	64.49	3 32	15.17	20	90.11	8 45	14.92	39 7	16.82	9 54
13.53	36 9	72.31	19 28	15.76	50	12.40	16 41	13.84	39	64.78	7 39	14.86	22	90.53	3 21	10.96	7	16.86	2 59
10.18	12	73.00	16 18	13.84	56	13.94	12 25	15.63	44	65.90	3 14	16.10	26	91.48	1 57	16.01	9	17.17	4 12
14.15	16	73.94	15 56	11.34	57	14.33	10 25	15.76	49	67.19	7 42	16.10	33	93.25	9 50	15.60	11	17.79	1 31
16.10	19	74.82	12 26	14.92	58	14.42	13 33	15.69	53	68.13	8 26	13.20	35	93.63	5 46	16.10	13	18.33	0 32
15.60	47	81.70	11 21	13.37	39 1	15.29	12 33	10.07	55	68.67	7 55	16.10	38	94.50	7 50	15.69	25	21.22	8 28
16.10	47	81.83	10 25	14.61	6	16.53	18 41	15.45	57	69.28	9 08	11.14	38	94.52	6 42	16.10	27	21.82	3 15
14.31	54	83.39	11 21	13.20	12	17.96	12 35	14.92	59	69.63	9 07	14.55	42	95.45	4 59	15.07	28	21.91	9 32
10.75	54	83.55	12 40	13.84	23	20.64	12 14	14.15	36 13	73.24	5 54	13.37	44	96.07	5 08	15.32	28	22.12	7 37
16.10	37 5	86.16	14 55	15.76	23	20.67	14 08	15.07	13	73.27	4 14	16.10	50	97.56	4 59	16.10	30	22.49	9 43
16.01	6	86.58	13 28	14.52	23	20.68	10 02	14.00	14	73.43	9 00	12.69	52	98.00	0 19	16.10	31	22.83	5 12
15.01	15	88.87	12 37	15.38	23	20.69	17 02	14.86	15	73.74	9 11	12.69	38 10	2.42	5 00	15.45	35	23.82	0 03
15.01	24	90.93	17 23	15.85	31	22.63	12 27	12.55	19	74.76	6 39	15.23	12	2.96	9 18	14.92	42	25.41	9 02
12.69	24	91.08	18 23	12.67	31	22.65	11 52	16.10	22	75.44	7 32	15.38	12	3.10	0 37	12.86	43	25.63	5 58
14.86	26	91.39	16 46	15.17 :	43	25.69	14 49	16.10	23	75.85	4 40	15.01	17	4.32	7 21	14.67	44	25.96	9 12
15.85	26	91.39	12 27	14.73	40 8	32.01	10 01	14.61	25	76.23	2 37	15.85	18	4.41	3 39	13.04	45	26.34	6 59
15.60	27	91.84	16 51	14.76	9	32.28	10 00	15.29	32	77.94	7 42	15.29	18	4.55	6 09	13.88	46	26.41	0 27
15.32	28	91.92	17 31	15.76	18	34.43	18 25	16.10	37	79.22	2 10	14.15	24	6.11	2 31	15.85	50	27.38	6 26
15.63	41	95.13	16 57	14.31	22	35.57	13 56	14.92	39	79.71	3 22	12.40	27	6.86	0 59	12.79	55	28.70	0 17
16.10	42	95.54	17 00	13.84	26	36.44	16 41	14.98	40	80.03	2 28	15.85	31	7.72	6 43	15 23	55	28.84	2 20
14.15	43	95.71	13 11	14.31	27	36.84	13 00	12.16	42	80.50	9 31	14.76	35	8.71	8 45	16.10	56	28.91	3 13
16.01	46	96.52	18 11	15.54	27	36.86	10 28	15.85	49	82.35	2 22	15.79	35	8.76	9 54	13.37	56	29.03	4 00
9.46	49	97.24	18 59	16.10	34	38.61	10 37	15.23	54	83.52	1 49	15.38	36	8.98	0 41	15.54	40 6	31.58	3 19

25 prec. + 77 sec. + 8′ 19″.

151—200				201—250				251—300				301—350				351—400			
Int. magn.	a	x	$y+20'$	Int. magn.	a	x	$y+'20$	Int. magn.	a	x	$y+20'$	Int. magn.	a	x	$y+20'$	Int. magn.	a	x	$y+20'$
	m s	′	′ ″		m s	′	′+″		m s	′	′+″		m s	′	′+″		m s	′	′+″
15.23	40 7	31.64	−7 04	15.76	37 53	98.18	6 04	13.69	35 54	68.48	19 01	11.26	39 25	21.32	18 58	13.84	38 15	3.78	29 31
15.32:	8	32.12	5 50	15.29	38 3	0.68	3 40	12.24	55	68.79	10 02	14.70	32	22.91	12 51	15.79	18	4.40	25 14
14.00	9	32.16	8 59	16.01	11	2.63	6 42	14.70	55	68.80	11 37	12.69	32	22.93	18 06	15.69	20	5.12	20 24
12.55	25	36.36	0 32	16.10	11	2.84	4 14	16.10	36 1	70.20	11 03	14.55	47	26.82	15 03	15.38	25	6.21	20 31
12.69	34	38.41	4 47	14.67	13	3.32	2 10	10.12	3	70.80	14 02	16.10	55	28.81	13 40	15.32	28	7.08	20 54
12.69	34	38.62	9 39	12.69	16	3.96	0 10	11.99	5	71.19	13 46	15.69	40 5	31.35	10 37	15.07	31	7.74	28 47
13.69	39	39.84	8 09	16.10	16	4.10	3 55	15.29	8	72.07	18 47	14.00	11	32.85	17 24	11.19	32	8.00	27 54
14.98	39	39.85	0 55	15.79	23	5.65	5 04	16.10	10	72.46	14 11	13.84	26	36.43	12 22	15.01	33	8.29	27 23
16.10	40	39.98	7 53	15.01	23	5.71	3 57	14.76	14	73.42	16 55	15.63	33	38.35	14 31	15.48	45	11.19	20 46
16.10	40	40.02	7 04	15.79	24	5.93	0 28	15.85	24	76.08	16 13	13.53	41	40.29	16 55	12.69	47	11.80	21 29
13.04	41	40.16	1 36	13.53	25	6.20	6 40	15.79	40	79.94	13 51	15.38	42	40.44	10 32	14.31	48	11.98	25 29
15.63	41	40.37	2 51	15.17	27	6.79	8 45	14.22	43	80.65	12 11	15.14	48	41.91	12 00	15.32	49	12.20	24 30
16.10	46	41.59	7 27	15.01	35	8.79	4 36	15.14	50	82.51	14 29	12.86	48	41.95	12 35	13.37	54	13.55	24 24
15.38	48	41.96	−8 42	13.37	39	9.79	3 57	15.45	53	83.31	19 09	14.15	35 28	62.12	24 15	11.09	56	14.09	22 17
15.11	35 31	62.83	+0 28	13.37	39	9.81	8 19	13.20	57	84.33	16 07	14.00	30	62.62	23 21	13.69	39 7	16.64	28 43
15.69	36	64.03	0 06	15.07	45	11.28	6 43	15.54	59	84.80	16 16	12.62	52	67.90	23 30	12.43	11	17.66	27 52
10.56	55	68.87	9 47	15.23	48	12.09	1 35	15.07	37 21	90.24	14 44	12.69	55	68.79	23 42	15.01	11	17.83	28 30
10.24	36 7	71.82	7 13	15.35	50	12.58	0 22	12.36	23	90.87	18 54	15.69	57	69.29	24 02	15.85	15	18.63	25 41
14.49	12	72.89	9 38	15.69	39 0	15.12	4 26	15.23	25	91.32	14 11	15.60	36 5	71.29	21 26	15.38	18	19.44	24 21
13.04	12	73.00	2 11	15.48	1	15.19	6 03	13.20	32	92.98	15 29	14.00	6	71.46	23 17	16.01	21	20.30	28 33
10.96	12	73.06	0 33	14.64	9	17.14	0 19	10.20	34	93.56	11 53	16.10	16	73.95	26 50	15.23	31	22.81	27 38
16.10	16	73.99	1 43	14.92?	10	17.46	9 35	15.69	35	93.75	10 36	14.00	18	74.55	21 27	16.10	33	23.33	28 50
16.10	19	74.87	0 16	16.01	11	17.67	5 16	10.50	50	97.44	14 07	16.01	19	74.76	26 02	16.10	36	23.95	22 49
15.79	27	76.77	8 42	8.22*	11	17.73	9 29	16.10	51	97.67	12 36	15.85	32	77.93	25 44	14.52	40	25.10	26 54
15.63	28	77.09	1 55	14.37	14	18.43	5 46	14.98	57	99.33	11 21	16.01	34	78.42	29 20	15.29	41	25.24	27 56
15.76	29	77.15	0 25	12.19	16	18.92	2 39	11.94	58	99.46	18 16	14.15	41	80.33	20 41	16.10	41	25.26	23 46
13.20	36	78.96	2 03	16.01	22	20.42	6 07	14.40	38 6	1.52	15 09	16.10	49	82.21	22 33	14.92	44	26.09	24 08
13.84	38	79.42	3 41	15.17	36	23.94	8 29	16.01	12	2.88	19 53	14.86	50	82.38	25 11	15.29	47	26.77	21 07
12.00	48	82.12	9 23	14.95	41	25.30	0 33	15.79	14	3.52	12 16	14.31	50	82.53	23 13	14.25	49	27.26	21 03
16.10	50	82.39	7 28	10.79	42	25.42	9 48	13.04	18	4.50	11 49	16.10	57	84.32	28 34	12.69	54	28.51	21 22
10.54	53	83.28	6 29	14.86	43	25.81	7 34	16.10	24	6.04	19 47	10.89	37 0	84.89	25 51	14.70	57	29.18	23 12
14.00	58	84.43	8 53	16.10	46	26.58	7 31	16.01	25	6.33	14 55	16.10	4	86.07	23 34	15.79	40 0	29.92	25 53
14.22	37 1	85.21	6 44	14.76	47	26.85	6 17	16.01	29	7.21	11 01	14.22	6	86.43	29 54	15.01	2	30.40	21 59
13.37	7	86.86	2 33	15.23	40 7	31.84	7 22	16.10	30	7.39	19 29	14.86	11	87.72	26 46	13.84	5	31.32	22 20
15.85	12	87.94	3 52	16.10	8	31.88	7 34	16.10	33	8.20	11 44	14.15	12	87.89	25 32	14.00	5	31.37	27 56
15.79	13	88.16	3 35	11.82	13	33.23	3 36	15.29	36	8.99	17 02	15.48	13	88.22	23 39	12.69	6	31.43	21 12
13.37	14	88.53	0 52	14.00	14	33.53	9 09	12.67	45	11.32	12 36	12.56	15	88.75	28 32	15.45	11	32.68	28 55
14.00	14	88.61	1 30	14.76	16	33.99	2 03	13.53	47	11.85	10 15	16.10	19	89.83	23 56	14.70	25	36.18	21 37
16.10	16	88.93	1 34	14.15	16	34.03	4 52	15.85	51	12.63	11 54	16.10	23	90.68	25 30	12.69	28	37.06	20 13
14.22	17	89.13	0 11	16.01	22	35.61	7 42	12.67	51	12.79	11 20	13.20	27	91.82	20 30	10.12	45	41.34	27 28
13.04	22	90.49	8 38	13.84	27	36.70	9 28	14.92	39 1	15.14	18 20	16.10	28	92.09	27 44	15.76	35 31	62.81	32 18
16.10	23	90.86	8 57	16.10	32	38.02	2 54	16.10	4	16.07	13 14	16.10	41	95.29	21 10	15.07	34	63.42	39 04
16.10	24	90.96	8 04	13.37	35 30	62.54	12 34	15.32	5	16.30	13 20	13.53	44	95.96	20 44	15.69	41	65.21	37 10
14.46	27	91.83	5 12	15.17	39	64.73	11 46	14.92	5	16.31	11 48	14.98	46	96.54	21 14	14.31	43	65.87	37 00
12.59	31	92.71	8 48	16.10	39	64.87	17 09	14.92	7	16.75	17 35	16.01	46	96.58	22 40	14.25	44	66.07	37 41
15.48	33	93.17	3 26	15.63	41	65.32	15 32	15.48	7	16.75	19 35	15.63	49	97.25	20 28	12.69	36 0	70.09	38 19
14.61	37	94.36	4 15	15.07	44	65.90	16 13	15.23	10	17.56	15 21	13.04	52	97.91	24 03	16.10	3	70.70	30 18
13.72	45	96.15	9 59	13.84	46	66.42	13 48	16.10	11	17.74	15 27	15.60	38 1	0.29	28 02	16.10	5	71.18	30 52
16.10	50	97.60	2 35	14.73	48	67.06	10 13	13.20	13	18.19	15 44	9.37	8	1.89	20 57	16.10	6	71.52	39 08
12.29	52	97.96	+2 40	15.14	52	68.03	13 53	15.29	16	18.95	16 12	10.93	13	3.28	23 27	15.85	7	71.65	33 02

25 prec. + 77 sec. + 8′ 19″.

401—450				451—500				501—550				551—600				601—602			
Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20′	Int. magn.	α	x	y+20
	m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″		m s	′	′ ″
16.10	36 13	73.14	38 11	12.01	39 28	22.00	38 52	14.19	37 51	97.74	40 00	14.76	36 20	74.95	54 27	15.85	40 41	40.15	55 57
14.61	13	73.33	34 55	14.46	29	22.22	34 25	14.40	54	98.62	49 01	10.44	21	75.15	50 24	16.10	41	40.30	59 40
10.06	21	75.15	36 52	13.84	30	22.40	34 45	14.31	57	99.30	43 16	15.29	21	75.25	58 40				
14.15	31	77.79	30 12	14.25	31	22.69	34 45	15.60	58	99.47	46 04	11.89	24	75.92	53 10				
16.10	34	78.57	38 46	15.60	32	23.01	38 45	13.37	38 0	0.03	43 52	14.70	44	81.10	52 47				
15.63	39	79.81	33 40	14.31	33	23.28	34 03	14.61	8	2.08	46 30	12.69	46	81.43	52 00				
14.92	46	81.59	35 20	16.01	35	23.67	39 02	11.91	16	4.10	48 34	15.45	57	84.21	58 55				
16.10	51	82.69	37 02	14.70	48	27.06	35 35	13.20	20	4.91	48 26	14.00	37 1	85.27	57 23				
13.20	52	82.95	31 27	12.69	52	28.06	38 42	15.07	29	7.14	45 39	14.46	2	85.49	57 29				
16.01	52	83.11	32 20	16.10	40 7	31.77	35 42	16.01	45	11.30	44 38	13.37	8	86.88	54 29				
12.86	53	83.20	38 28	12.67	9	32.27	33 07	15.45	49	12.35	46 59	11.96	33	93.14	59 46				
12.16	54	83.40	35 44	13.53	9	32.27	33 26	13.20	58	14.60	42 07	13.20	33	93.37	53 38				
15.07	37 0	85.06	39 24	13.30	11	32.69	30 08	14.92	39 2	15.60	41 53	16.01	37	94.30	57 34				
16.10	1	85.31	36 10	14.83	13	33.16	35 43	14.86	3	15.73	45 27	15.76	38	94.52	54 14				
15.26	2	85.50	30 22	12.86	14	33.50	36 18	15.76	4	16.04	44 17	16.10	51	97.83	55 15				
10.95	10	87.43	32 19	13.84	18	34.51	36 40	11.00	8	17.02	40 55	16.10	53	98.26	57 02				
15.85	11	87.68	36 26	13.84	23	35.70	30 54	15.51	10	17.52	49 40	13.69	38 1	0.22	58 25				
15.79	15	88.80	36 51	14.15	24	36.01	33 10	14.00	12	18.04	47 27	14.25	5	1.33	53 06				
16.01	19	89.69	35 07	11.79	30	37.40	33 09	16.10	19	19.72	42 16	14.40	10	2.47	52 50				
11.01	29	92.34	32 41	15.14	34	38.46	32 22	14.70	22	20.39	45 03	15.69	32	7.90	59 35				
14.00	31	92.86	36 04	13.20	34	38.54	39 31	16.10	22	20.54	42 48	15.17	34	8.50	59 56				
14.67	35	93.68	35 35	14.61	42	40.41	38 12	12.69	23	20.63	41 54	16.10	37	9.30	57 48				
15.85	37	94.31	36 46	14.15	46	41.62	30 28	11.07	32	23.00	49 44	15.54	42	10.39	56 37				
16.10	39	94.64	30 23	11.33	35 29	62.30	40 32	15.60	33	23.34	40 49	16.10	43	10.67	56 02				
16.10	50	97.51	36 16	13.84	35	63.85	45 45	12.86	38	24.38	40 52	12.43	48	12.10	54 20				
13.20	38 6	1.59	33 46	15.60	38	64.57	40 53	12.18	38	24.59	48 16	14.25	52	13.04	55 04				
9.85	7	1.77	33 28	15.54	39	64.79	41 08	14.52	41	25.30	40 46	14.70	54	13.42	51 54				
16.10	12	2.89	32 43	15.48	48	66.91	46 09	14.70	42	25.59	48 02	16.01	39 4	15.98	56 27				
16.01	17	4.19	35 43	15.76	48	66.93	44 51	15.85	57	29.33	46 07	15.79	4	16.06	56 02				
10.93	22	5.60	34 41	15.85	52	68.00	43 28	16.10	57	29.33	46 50	13.53	10	17.59	56 18				
15.14	30	7.38	39 56	12.86	36 3	70.82	47 10	14.67	40 0	29.88	40 29	15.38	15	18.65	51 43				
12.69	33	8.16	32 43	14.15	8	71.92	45 23	12.55	7	31.66	44 19	16.10	24	20.93	50 56				
15.17	34	8.54	30 00	16.10	14	73.62	42 32	12.69	13	33.31	47 24	15.14	24	21.10	50 04				
12.86	35	8.70	38 38	15.01	18	74.45	44 37	15.14	13	33.35	44 04	15.45	33	23.17	57 28				
14.70	36	9.06	33 05	15.07	21	75.30	47 47	14.25	21	35.15	49 10	13.84	39	24.70	51 59				
15.45	39	9.87	33 16	12.36	26	76.47	43 29	13.04	23	35.86	46 35	16.10	43	25.72	58 19				
15.63	44	11.00	36 08	14.95	31	77.73	49 42	15.14	31	37.83	47 41	15.54	46	26.43	58 28				
16.01	45	11.37	31 47	13.84	40	79.93	40 17	14.52	33	38.31	47 40	13.04	48	26.95	55 15				
15.54	47	11.86	37 29	16.10	44	81.12	48 18	13.20	44	41.04	47 35	15.63	48	26.99	55 42				
11.52	49	12.25	32 45	9.94	51	82.78	48 00	15.45	46	41.39	43 38	16.10	52	28.10	52 25				
12.69	39 5	16.27	34 10	14.92	54	83.49	46 58	16.01	35 33	63.20	55 21	16.10	54	28.50	57 22				
15.76	7	16.72	38 28	13.20	56	83.93	44 33	13.69	39	64.78	51 01	15.69	40 11	32.66	56 46				
16.10	9	17.14	30 54	15.29	37 0	85.08	44 38	14.15	44	65.93	50 29	13.84	16	34.12	54 49				
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OF

THE ASTRONOMICAL OBSERVATORY OF HARVARD COLLEGE.

EDWARD C. PICKERING, DIRECTOR.

VOL. CI.

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BETWEEN $\delta = 0$ AND $\delta = +90°$

SYSTEMATIC PLAN

BY

EDWARD C. PICKERING,
DIRECTOR OF THE HARVARD COLLEGE OBSERVATORY,

AND

J. C. KAPTEYN,
PROFESSOR OF ASTRONOMY AND DIRECTOR OF THE ASTRONOMICAL LABORATORY
AT GRONINGEN.

GRONINGEN.
HOITSEMA BROTHERS.
1918.

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